CiM-25/600L

IP-Enabled M&C
Installation and Operation Manual
Part Number CD/CIM25600L.IOM
Rev. 2

Errata A

Comtech EF Data Documentation Update

Subject: Revise Paragraph 2.3.1 Powering the CiM-25

Date: July 9, 2004
Part Number: CD/CIM25600L.IOM
Related Document: CiM-25/600L,IP-Enabled M&C,Installation and Operation Manual,Part Number CD/CIM25600L.IOM,Rev. 2
Collating Instructions: Attach to Page 4

Comments:

This information will be incorporated into the next revision.

Change Specifics:

2.3.1 Powering the CiM-25

An AC/DC adapter is supplied to provide the CiM-26F power via the power-jack connector. There is no ON/OFF switch for the CiM-25.

CiM-25/600L

IP Enabled M&C
Installation and Operation Manual

Part Number CD/CIM25600L.IOM
REV. 2
June 25, 2004

Comtech EF Data is an ISO 9001
Registered Company.

Comtech EF Data, 2114 West 7th Street, Tempe, Arizona 85281 USA, (480) 333-2200, FAX: (480) 333-2161.

CUSTOMER SUPPORT

Contact the Comtech EF Data Customer Support Department for:

- Product support or training
- Information on upgrading or returning a product
- Reporting comments or suggestions concerning manuals

A Customer Support representative may be reached at:

Comtech EF Data
Attention: Customer Support Department
2114 West 7th Street
Tempe, Arizona 85281 USA

480.333.2200 (Main Comtech EF Data Number)
480.333.4357 (Customer Support Desk)
480.333.2161 FAX

or, E-Mail can be sent to the Customer Support Department at:

cdmipsupport@comtechefdata.com

Contact us via the web at www.comtechefdata.com.

1. To return a Comtech EF Data product (in-warranty and out-of-warranty) for repair or replacement:

2. Request a Return Material Authorization (RMA) number from the Comtech EF Data Customer Support Department.

3. Be prepared to supply the Customer Support representative with the model number, serial number, and a description of the problem.

4. To ensure that the product is not damaged during shipping, pack the product in its original shipping carton/packaging.

5. Ship the product back to Comtech EF Data. (Shipping charges should be prepaid.)

For more information regarding the warranty policies, see Warranty Policy, p. xiii.

Table of Contents

Figures

ABOUT THIS MANUAL

This manual provides installation and operation information for the Comtech EF Data CiM-25/600L IP Enabled M&C. This is a technical document intended for earth station engineers, technicians, and operators responsible for the operation and maintenance of the CiM-25/600L IP Enabled M&C.

CONVENTIONS AND REFERENCES

CAUTIONS AND WARNINGS

Indicates information critical for proper equipment function.

Indicates a hazardous situation that, if not avoided, may result in minor or moderate injury. CAUTION may also be used to indicate other unsafe practices or risks of property damage.

Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury.

METRIC CONVERSION

Metric conversion information is located on the inside back cover of this manual. This information is provided to assist the operator in cross-referencing English to Metric conversions.

RECOMMENDED STANDARD DESIGNATIONS

Recommended Standard (RS) Designations have been superseded by the new designation of the Electronic Industries Association (EIA). References to the old designations are shown only when depicting actual text displayed on the screen of the unit (RS-232, RS-485, etc.). All other references in the manual will be shown with the EIA designations (EIA-232, EIA-485, etc.) only.

TRADEMARKS

All product names mentioned in this manual may be trademarks or registered trademarks of their respective companies and are hereby acknowledged.

REPORTING COMMENTS OR SUGGESTIONS CONCERNING THIS MANUAL

Comments and suggestions regarding the content and design of this manual will be appreciated. To submit comments, please contact the Comtech EF Data Customer Support Department.

EMC COMPLIANCE

This is a Class A product. In a domestic environment, it may cause radio interference that requires the user to take adequate protection measures.

EN55022 COMPLIANCE

This equipment meets the radio disturbance characteristic specifications for information technology equipment as defined in EN55022.

EN50082-1 COMPLIANCE

This equipment meets the electromagnetic compatibility/generic immunity standard as defined in EN50082-1.

FEDERAL COMMUNICATIONS COMMISSION (FCC)

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy. If not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference; in which case, users are required to correct the interference at their own expense.

Note: To ensure compliance, properly shielded cables for DATA I/O shall be used. More specifically, these cables shall be shielded from end to end, ensuring a continuous shield.

SAFETY COMPLIANCE

EN 60950

Applicable testing is routinely performed as a condition of manufacturing on all units to ensure compliance with safety requirements of EN60950.

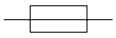
This equipment meets the Safety of Information Technology Equipment specification as defined in EN60950.

LOW VOLTAGE DIRECTIVE (LVD)

The following information is applicable for the European Low Voltage Directive (EN60950):

<HAR>	Type of power cord required for use in the European Community.
	CAUTION: Double-pole/Neutral Fusing. ACHTUNG: Zweipolige bzw. Neutralleiter-Sicherung.

International Symbols:

Symbol	Definition
	Alternating Current.
	Fuse.

Symbol	Definition
	Protective Earth.
	Chassis Ground.

Note: For additional symbols, refer to “Cautions” listed earlier in this preface.

WARRANTY POLICY

This Comtech EF Data product is warranted against defects in material and workmanship for a period of two years from the date of shipment. During the warranty period, Comtech EF Data will, at its option, repair or replace products that prove to be defective.

For equipment under warranty, the customer is responsible for freight to Comtech EF Data and all related custom, taxes, tariffs, insurance, etc. Comtech EF Data is responsible for the freight charges **only** for return of the equipment from the factory to the customer. Comtech EF Data will return the equipment by the same method (i.e., Air, Express, Surface) as the equipment was sent to Comtech EF Data.

LIMITATIONS OF WARRANTY

The foregoing warranty shall not apply to defects resulting from improper installation or maintenance, abuse, unauthorized modification, or operation outside of environmental specifications for the product, or, for damages that occur due to improper repackaging of equipment for return to Comtech EF Data.

No other warranty is expressed or implied. Comtech EF Data specifically disclaims the implied warranties of merchantability and fitness for particular purpose.

EXCLUSIVE REMEDIES

The remedies provided herein are the buyer's sole and exclusive remedies. Comtech EF Data shall not be liable for any direct, indirect, special, incidental, or consequential damages, whether based on contract, tort, or any other legal theory.

DISCLAIMER

Comtech EF Data has reviewed this manual thoroughly in order that it will be an easy-to-use guide to your equipment. All statements, technical information, and recommendations in this manual and in any guides or related documents are believed reliable, but the accuracy and completeness thereof are not guaranteed or warranted, and they are not intended to be, nor should they be understood to be, representations or warranties concerning the products described. Further, Comtech EF Data reserves the right to make changes in the specifications of the products described in this manual at any time without notice and without obligation to notify any person of such changes.

If you have any questions regarding the equipment or the information in this manual, please contact the Comtech EF Data Customer Support Department.

NOTES

Chapter 1. INTRODUCTION

CiM-25
IP-Enabled
M&C Interface

1.1 INTRODUCTION

The CiM-25 is a low-cost solution for providing an Internet Protocol (IP) Monitor and Control (M&C) interface for existing Comtech EF Data satellite modems, RF frequency converters and solid-state power amplifiers. The CiM-25 provides a custom proxy interface between the IP world and the equipment's existing serial remote control interface.

The CiM-25 provides powerful equipment management tools via the uses of HTTP protocol, SNMP v2c Protocol, and Telnet Protocol. Wrapped around these industry standard protocols is a system of account access and IP security control features to safeguard equipment from unwanted intrusions. The CiM-25 brings customer support to a new level by providing SMTP Protocol to facilitate automated, direct E-mail to Comtech EF Data's Customer Support Center.

The CiM-25 is packaged in a very compact 4.3" x 1.7" x 0.8". The unit can be powered directly by the attached equipment or via an external AC/DC adapter. The CiM-25 requires less than 1 of watt power.

The CiM-25 uses flash technology providing support for a wide variety of products from a single hardware platform. The CiM-25 either currently or will in the near future support the following Comtech EF Data equipment:

- Modems

SDM-300L1*	SDM-8000*	CDM-600L*
SDM-300L2*	SDM-300A/SLM-3650*	SDM-2020D*
SDM-300L3	CDM-550T	SDM-9000*
SDM-2020M*	CDM-600*	

- Frequency Converter

  UT4500 series 1 kHz and 125 kHz step size Up Converters*
  DT4500 series 1 kHz and 125 kHz step size Down Converters*

*Requires an external 5 Vdc Power Supply (universal AC input). See section 2.3.1, Powering the CiM-25.

1.2 SPECIFICATIONS

SYSTEM SPECIFICATIONS	
Ethernet Interface	10base T (RJ-45)
Equipment Interface	DB9 Female on CiM-25F
	DB9 Male on CiM-25M
ENVIRONMENTAL AND PHYSICAL	
Temperature	Operating: 0 to 50º C
	Storage: -25 to 70º C
Power Supply	4.75 to 5.25 Vdc
Power Consumption	0.9 W typical, 1.5 W maximum
Physical Dimensions	L=110, W=43, H=20 (mm)
	L=4.3, W=1.7, H=0.8 (inches)
Weight	< 1 lbs
CE Approvals	EN55022 Class B (Emissions)
	EN50082-1 Part 1 (Immunity)
	EN60950 (Safety)
FCC Approval	FCC Part 15 Class B

Chapter 2. INSTALLATION

2.1 UNPACKING AND INSPECTION

Inspect shipping containers for damage. If shipping containers are damaged, keep them until the contents of the shipment have been carefully inspected and checked for normal operation.

Remove the packing list from the outside of the shipping carton. Open the carton and remove the contents, checking the contents against the packing list. Verify completeness of the shipment and that the unit functions correctly. If damage is evident, contact the carrier and Comtech EF Data immediately and submit a damage report. Keep all shipping materials for the carrier's inspection.

If the unit needs to be returned to Comtech EF Data, please use the original shipping container.

2.2 CONFIGURATION

There are no internal jumpers to configure, no interface cards to install, and no other options to install. All configuration is carried out entirely in software. The unit should first be configured locally, using the RJ-45 Ethernet interface. The unit will ship with a default IP address of 10.6.30.1, Gateway 0.0.0.0, and Mask 255.255.0.0. The default Administrator Name and Password are **admin** and **1234** respectively. See the operations section for details regarding configuring and administrating the CiM-25.

2.3 CONNECTING CiM-25 TO EQUIPMENT

The CiM-25 is designed to connect directly (no cabling) to supported Comtech EF Data Modems, Frequency Converters, or Solid State Power Amplifiers using the equipment's 9-pin remote control interface port. The CiM-25 interfaces to this equipment via a RS-232 interface at a baud rate of 19200 bps and a data format of 8-N-1. Therefore, it is necessary to first select the RS-232 interface type on the interfacing equipment prior to connecting the CiM-25 to said equipment. Some equipment automatically selects a unit address of **0** when RS232 is chosen while other equipment require the user to configure the unit remote control address to **1**. In addition, on equipment that supports multiple data formats the user must select **8-N-1** format.

2.3.1 POWERING THE CiM-25

The CiM-25F can accept power either on pin 4 of the DB9 interface to the equipment or via the power jack located next to the RJ-45 connector. An optional AC/DC adapter can be purchased to provide the CiM-25F power via the power-jack connector.

The CiM-25M accepts power via the power jack located next to the RJ-45 connector. An AC/DC adapter must be purchased to provide power to the CiM-25M.

All CDM-550, CDM-600, and CDM-600L modems shipped from the factory after June 1, 2001 have been modified to supply the 5 Vdc signal on pin 4. All units shipped from the factory prior to this date DO NOT provide the 5 Vdc on pin 4. A field modification kit is available and can be purchased for CDM-550, CDM-600, and CDM-600L modems shipped prior to this date

There is no ON/OFF switch for the CiM-25.

2.3.2 CiM-25 CONNECTORS

There are three connectors located on each CiM-25. Each is defined below:

- RJ-45 - 10base T Ethernet interface.
- DB9 – RS-232 equipment interface (either male or female)
- 1.3mm – DC Power Jack

The pinout details for these connectors are provided below.

RJ-45 Pin Out

Pin	Function
1	Tx+
2	Tx-
3	Rx+
4	No Connection
5	No Connection
6	Rx-
7	No Connection
8	No Connection

DB(Female (CiM-25F)

Pin	Function
1	Ground
2	**CiM-25 Rx**
3	**CiM-25 Tx**
4	+5 Vdc Input
5	Ground
6	No Connection
7	No Connection
8	No Connection
9	No Connection

DB9 Male (CiM-25M)

Pin	Function
1	Ground
2	**CiM-25 Rx**
3	**CiM-25 Tx**
4	No Connection
5	Ground
6	+5 Vdc Input
7	No Connection
8	No Connection
9	No Connection

1.3mm – DC Power Jack

Pin	Function
Center Conductor	+5 Vdc Input
Outer Conductor	Ground

NOTES:

Chapter 3. OPERATION

3.1 OVERVIEW

Each CiM-25 unit is programmed in the factory to provide a custom proxy interface to one of Comtech EF Data's previously defined equipments. This means that a CiM-25/600L that is loaded to interface a CDM-600L Modem to the IP world will not operate with any other piece of Comtech EF Data equipment, unless the personality is changed via a flash upload.

However every C*i*M-25, independent of personality, shares a large number of common features. For instance, all CiM-25 units provide the same degree of security features, network protocols, and administration features. The following sections will provide a detailed description of all the features available for a specific C*i*M-25 (i.e. CiM-25/600L with CDM-600L Modem). Those areas that are common to all CiM-25 units will be expounded upon and delineated. The areas that are specific to the individual personality (i.e. equipment parameter control) will only be briefly covered since these are already covered in detail in the individual equipment operator manuals.

3.2 ADMINISTRATION AND SECURITY

The CiM-25 has been designed to provide a high degree of administrative flexibility to insure that each customer can configure the device (or network of devices) in a manner that meets his/her security needs. The primary tools provided are the Host Allow List, PING enable/disable, and three (3) level user login. Used as a group, these three tools provide the CiM-25 with a very high degree of security. Each of these tools is described in more detail below:

3.2.1 SECURITY TOOLS

3.2.1.1 USER LOGIN

For the HTTP interfaces the CiM-25 provides three (3) levels of user login. The Telnet interface, provides the first two (2) of the following levels. The highest level is the **Administrator** login. This level allows 100% complete access to all controllable CiM-25 and equipment parameters. The next level of user login is the **Read/Write** level. This level allows access to all controllable equipment parameters but does not allow access to the administration parameters of the CiM-25 itself. The lowest level of login is the **Read Only** login. As the name implies, this level allows the user to view, but not change, the equipment parameters. Like the **Read/Write** level, this level does not allow access to the administration parameters of the CiM-25.

The Name and Password factory defaults for the three level defined above are:

- Administrator Level:
  - Name: **admin**
  - Password: **1234**
- Read/Write Level:
  - Name: **opcenter**
  - Password: **1234**
- Read Only Level:
  - Name: **monitor**
  - Password: **1234**

The SNMP interface uses all three (3) levels of user login utilizing the SNMP v2c (community string) method of security. The community string is the concatenation of the name and password, i.e. **admin1234**, default admin community string.

3.2.1.2 HOST ALLOW LIST

The CiM-25 provides a high degree of security by allowing the Administrator to define a list of IP addresses to which the CiM-25 will accept/respond to IP datagrams. The Administrator can select up to six (6) individual allowable IP addresses or up to three (3) allowable IP address ranges or any combination of individual and ranges that can be defined by six fields (see HTTP interface below for further details). The host allow list is applied to all three CiM-25 interfaces (HTTP, SNMP, and Telnet).

3.2.1.3 PING ENABLE/DISABLE

The final piece to the CiM-25 security design is the PING Enable/Disable feature. This feature allows the Administrator to disable PING on an individual C*i*M-25. This in effect conceals the CiM-25 from most hackers.

3.2.2 NETWORK ADMINISTRATION

In addition to the three items described above under Security, the CiM-25 provides the following network administration facilities:

- Configure IP Address, IP Gateway, and IP Mask.
- Select Primary and Secondary DNS server IP addresses.
- Select SMTP domain Name and IP address.
- Select SNMP Trap IP address.

3.3 HTTP INTERFACE

This section of this document will explain the HTTP (Web Server) interface provided by the CiM-25/600L.

3.3.1 LOCAL LAN CONFIGURATION

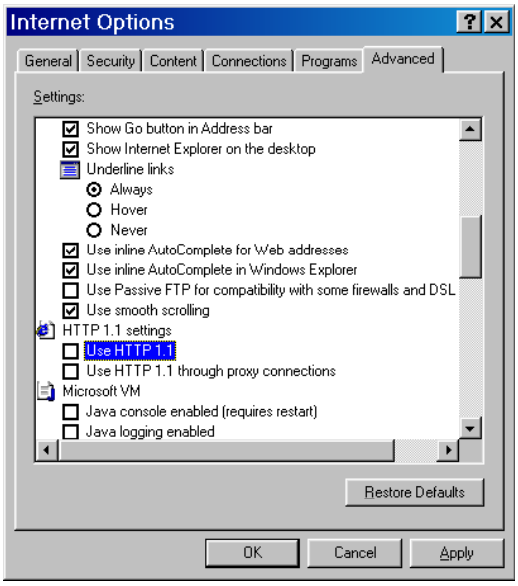
The web page interface is best viewed at **1152 x 864** resolution using **IE 5.5** or higher and a 17" or larger monitor.

3.3.1.1 HTTP 1.1

IMPORTANT

For best performance, HTTP 1.1 should be disabled. It can be changed as follows:

Step	Procedure	Example
1.	Click **Start**, **Settings**, then **Control Panel**.	
2.	Double-click the **Internet Options** icon in the Control Panel.	
3.	Under the **Advanced** tab, scroll down to **HTTP 1.1 settings**.	
4.	Uncheck the **Use HTTP 1.1** box and click **OK**.	

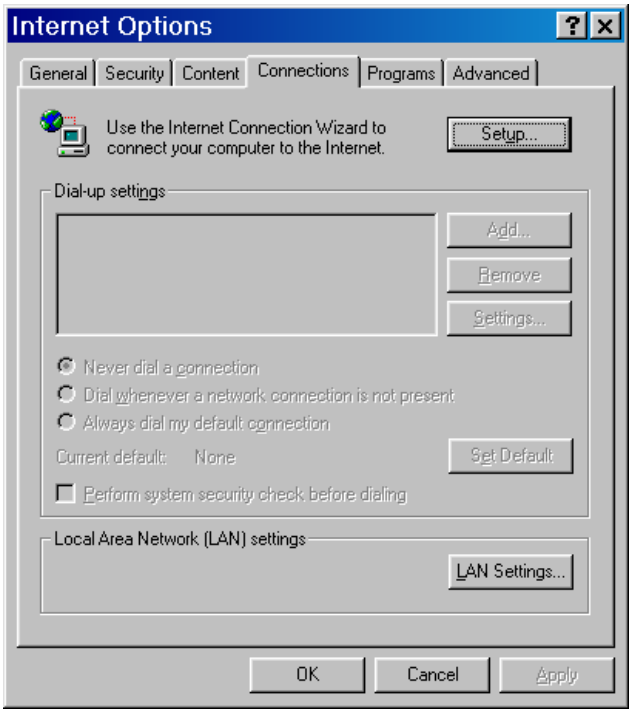


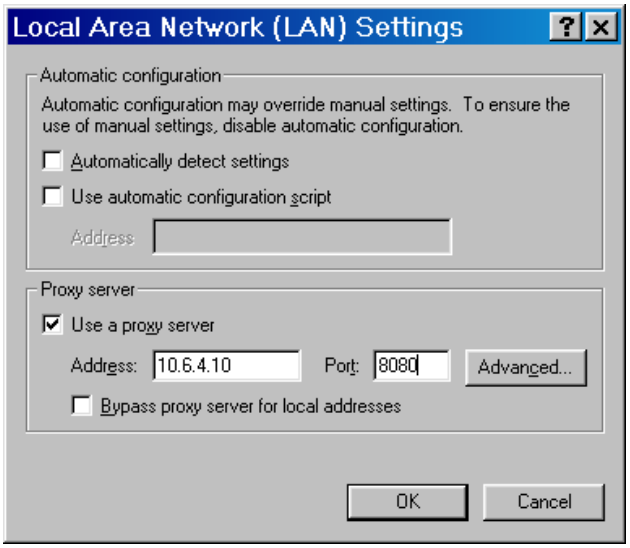
3.3.1.2 PROXY SERVER

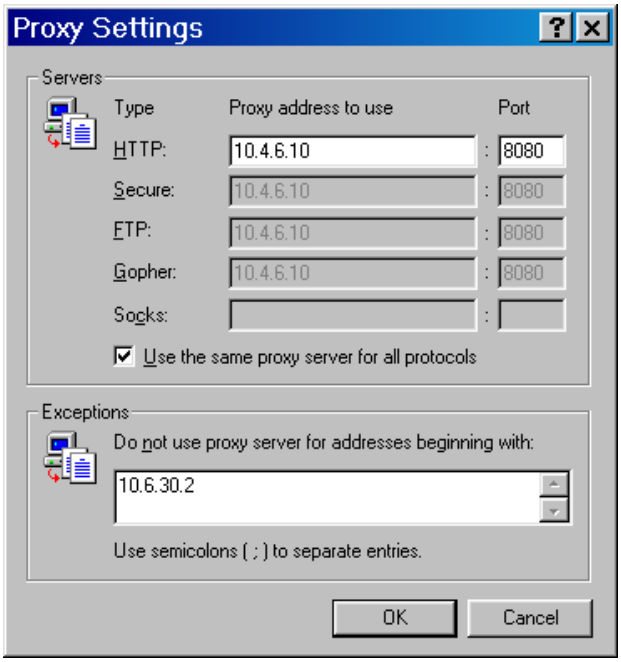
IMPORTANT

If your network uses a proxy server, it may be necessary to disable the use of it for the browser to work. It can be changed as follows:

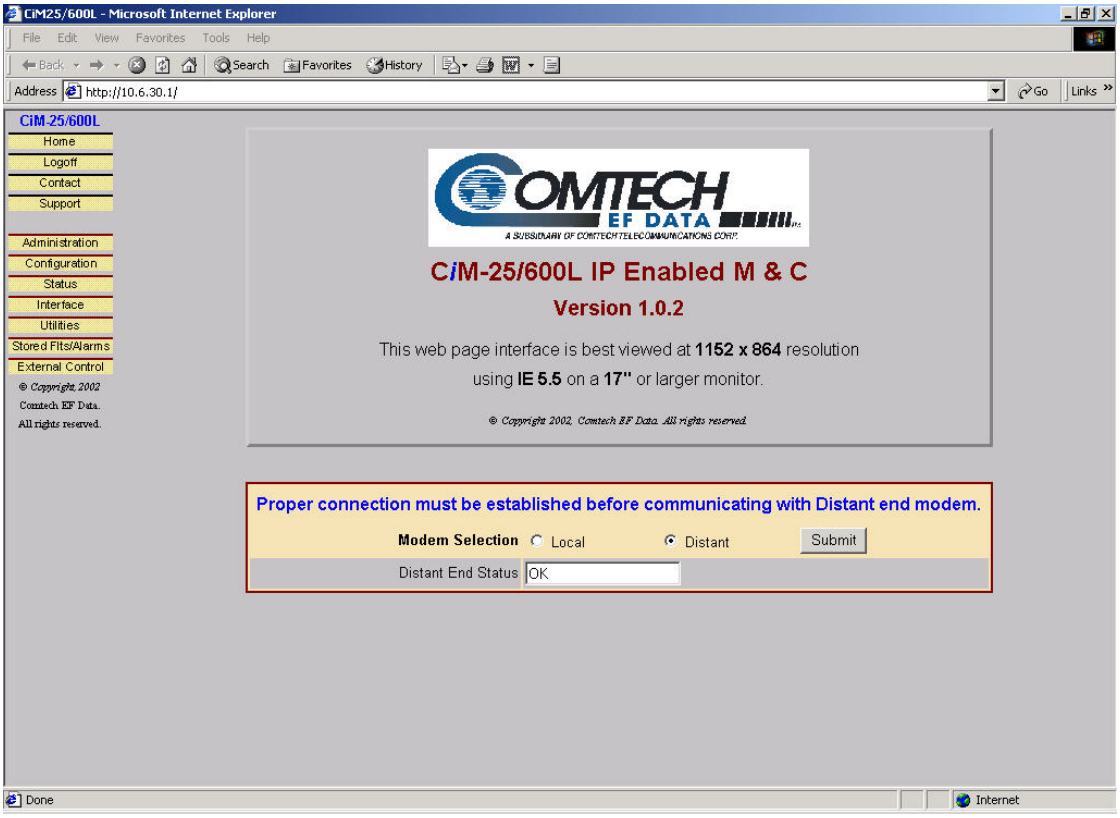
Step	Procedure	Example
1.	Click **Start**, **Settings**, then **Control Panel**.	
2.	Double-click the **Internet Options** icon in the Control Panel.	
3.	Under the **Connections** tab, click the **LAN Settings** button.	
4.	At this point you must do one of the following: a. Uncheck the **Use a proxy server** box and click **OK**. *or* b. Click the **Advanced** button and go to the next step.	





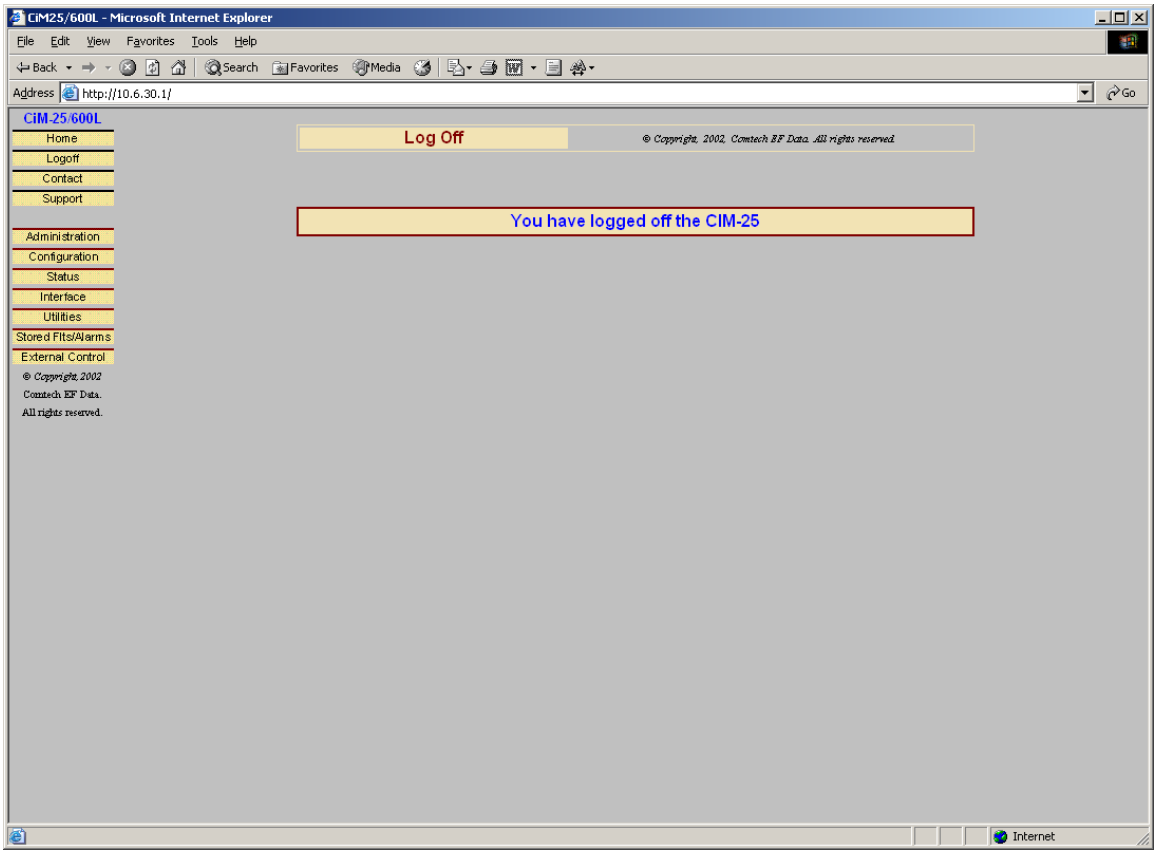
Step	Procedure	Example
5.	In the **Exceptions** box, enter the IP address of the CiM module and click **OK**.	

3.3.2 HOME PAGE



Welcome to the CiM-25/600L Web Interface. The following sections will give you a brief introduction to each web page available.

3.3.3 LOGOFF PAGE

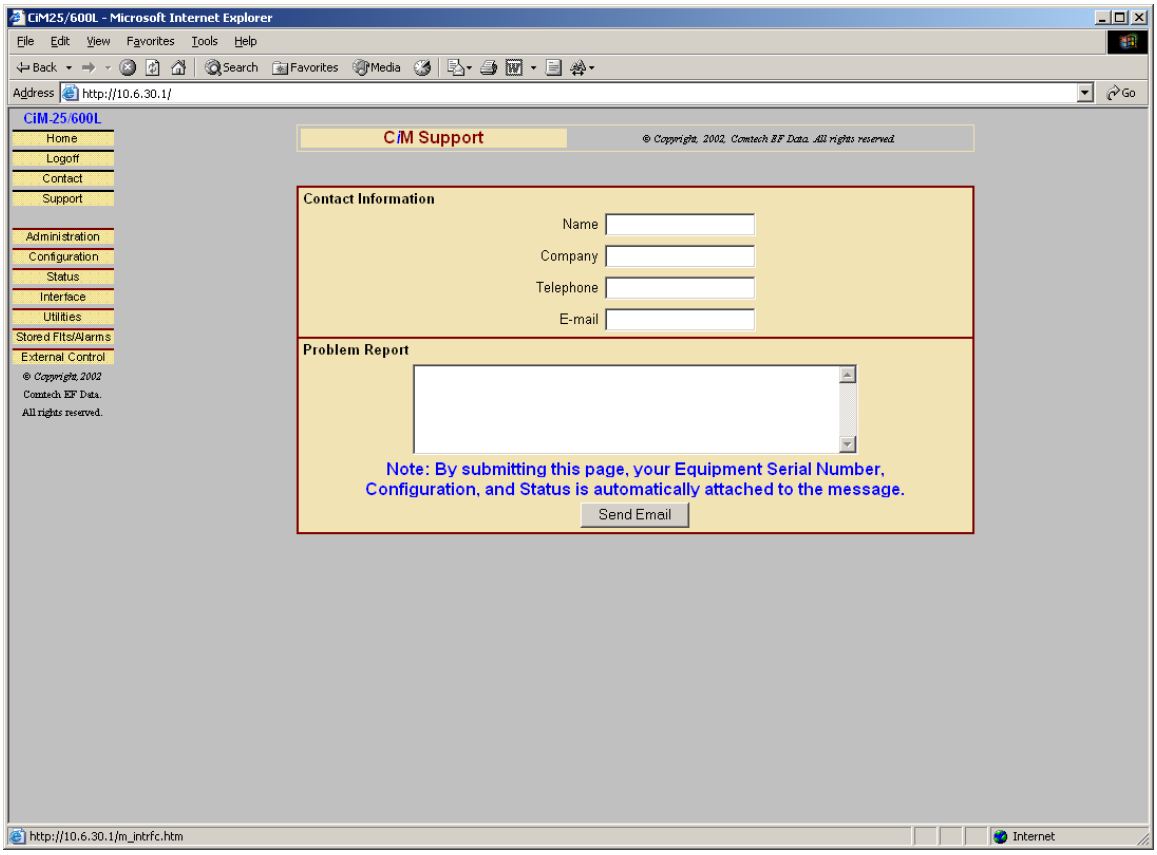


The CiM-25 allows multiple connections to the Web Interface. The Web Interface and Telnet Interface cannot be used at the same time.You must logoff the Web Interface in order to log into the Telnet Interface and vice versa.

3.3.4 SUPPORT PAGE (COMMON)

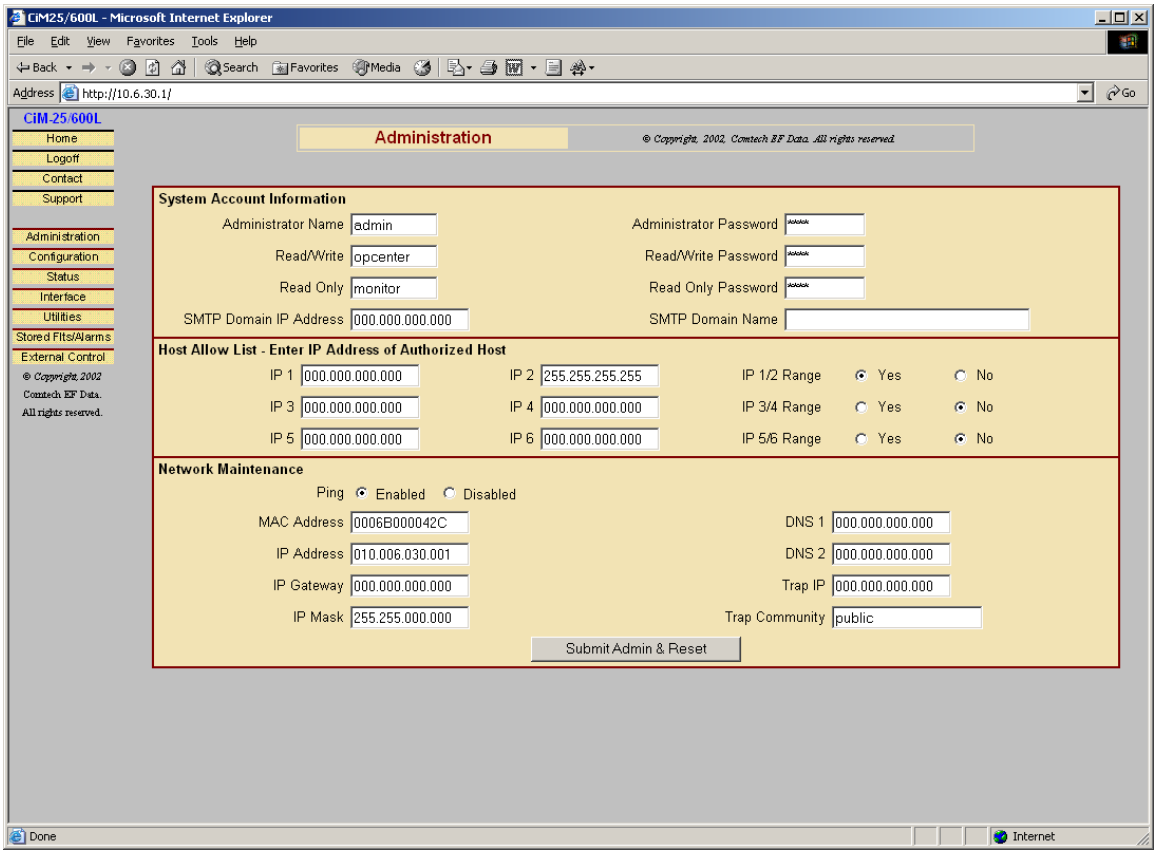
IMPORTANT

In order to use the Support functions, the user must first assign SMTP a domain name and IP address. Refer to section 3.3.5.8, SMTP Domain Name and IP Address.



The Support page is accessible by ALL logged in users. This page allows the user to automatically E-mail Comtech EF Data's Customer Support center. The user MUST fill in the **Name**, **Company**, **E-mail Address**, and **Telephone** information boxes. In addition, the user must enter some description of the problem or question into the **Problem Report** field. The CiM-25 will automatically retrieve and attach pertinent information about the equipment (such as Equipment ID, Serial Number, Configuration, and Status) to the E-mail message. This will allow Comtech EF Data Customer Support personal to provide faster and more accurate responses to customer needs.

3.3.5 ADMINISTRATION PAGE (COMMON)



The Administration Page is only available to users who have logged in using the Administrator Name and Password.

3.3.5.1 ADMINISTRATOR NAME AND PASSWORD

The factory defaults for these parameters are **admin** and **1234** respectively. The Name field can be any alpha-numeric combination with a minimum length of 4 characters and a maximum length of 10 characters. The Password field can be any alpha-numeric combination with a minimum length of 4 characters and a maximum length of 10 characters.

3.3.5.2 READ/WRITE NAME AND PASSWORD

The factory defaults for these parameters are **opcenter** and **1234** respectively. The Name field can be any alpha-numeric combination with a minimum length of 4 characters and a maximum length of 10 characters. The Password field can be any alpha-numeric combination with a minimum length of 4 characters and a maximum length of 10 characters.

3.3.5.3 READ ONLY NAME AND PASSWORD

The factory defaults for these parameters are **monitor** and **1234** respectively. The Name field can be any alpha-numeric combination with a minimum length of 4 characters and a maximum length of 10 characters. The Password field can be any alpha-numeric combination with a minimum length of 4 characters and a maximum length of 10 characters.

3.3.5.4 HOST ALLOW LIST

The Host Allow List can be configured as any of the following combinations:

- 1 to 6 individual IP addresses.
- 1 to 3 ranges of IP addresses.
- A combination of individual and range addresses.

The Administrator simply checks the **Range Yes** radio button next to the group of two IP addresses that constitute the beginning and ending of the range.

3.3.5.5 PING ENABLE / DISABLE

The factory defaults for this parameter is **Enabled**. The radio buttons allow the Administrator to choose between **Enabled** and **Disabled**.

3.3.5.6 CiM-25 IP ADDRESS, GATEWAY AND MASK

The factory defaults for these parameters are **10.6.30.1**, **0.0.0.0**, and **255.255.0.0** respectively. The Administrator can change these as required.

3.3.5.7 DNS SERVERS

The Administrator can assign both a primary and secondary DNS server IP address.

3.3.5.8 SMTP DOMAIN NAME AND IP ADDRESS

The Administrator can assign the SMTP Domain Name and Domain IP Address. This is required if the E-mail feature of the Support Page is to be used.

3.3.5.9 SNMP TRAP IP ADDRESS

The Administrator can assign a SNMP Trap IP address.

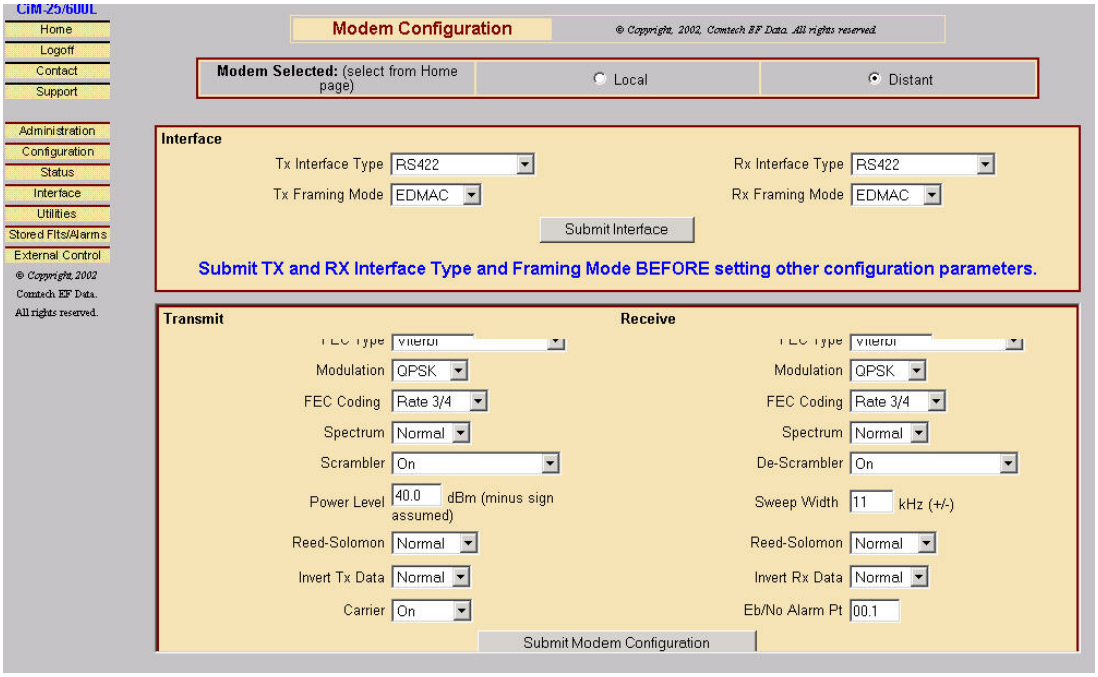
3.3.5.10 MAC ADDRESS

This is a READ ONLY parameter and can not be changed.

3.3.5.11 SNMP TRAP COMMUNITY

The Administrator can assign a SNMP Trap Community. The factory default for this parameter is public. The SNMP Trap Community field can be any combination of characters and a length of 0 - 20 characters.

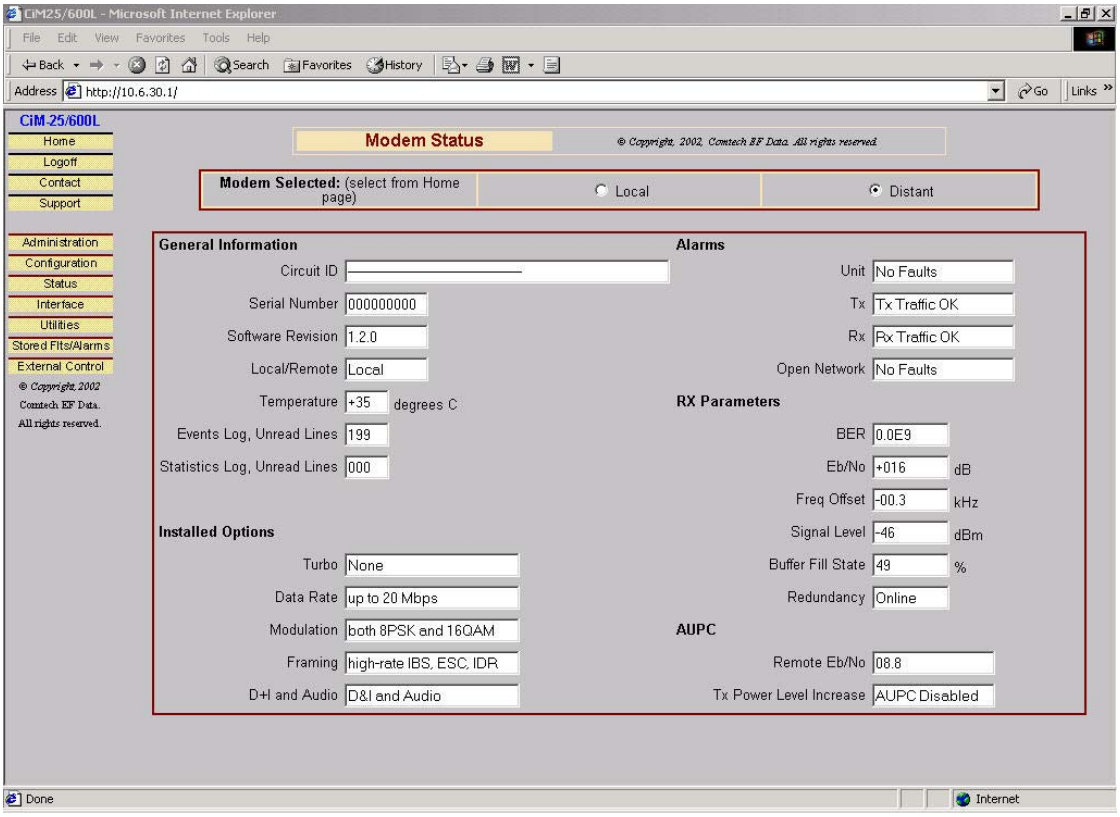
3.3.6 MODEM CONFIGURATION PAGE (RX/TX)



This page can be viewed by all three levels of user login. However, only user with Administrative or Read/Write privileges can submit changes to this page. This page allows the user to configure the primary Transmit and Receive Parameters of a CDM-600L Modem.

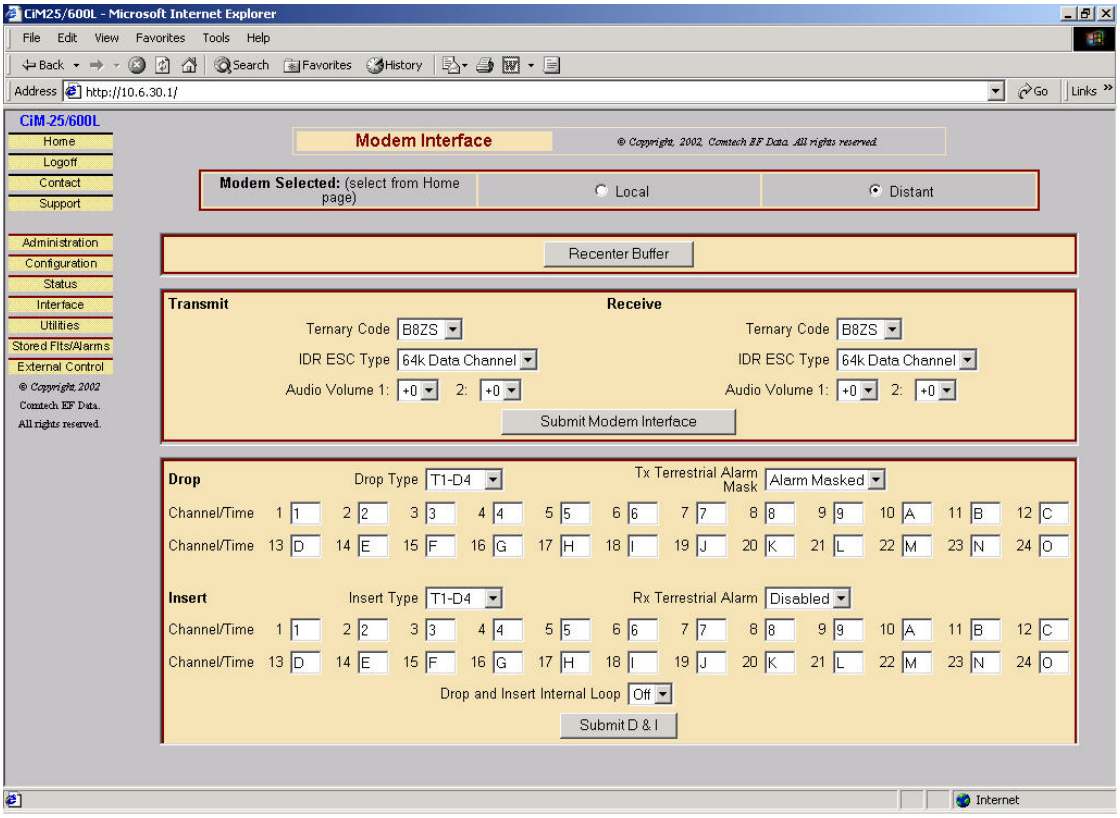
Note: The Tx and Rx interface Type and Frame Module have higher priority than other parameters, and should be configured **before** setting other parameters.

3.3.7 STATUS PAGE



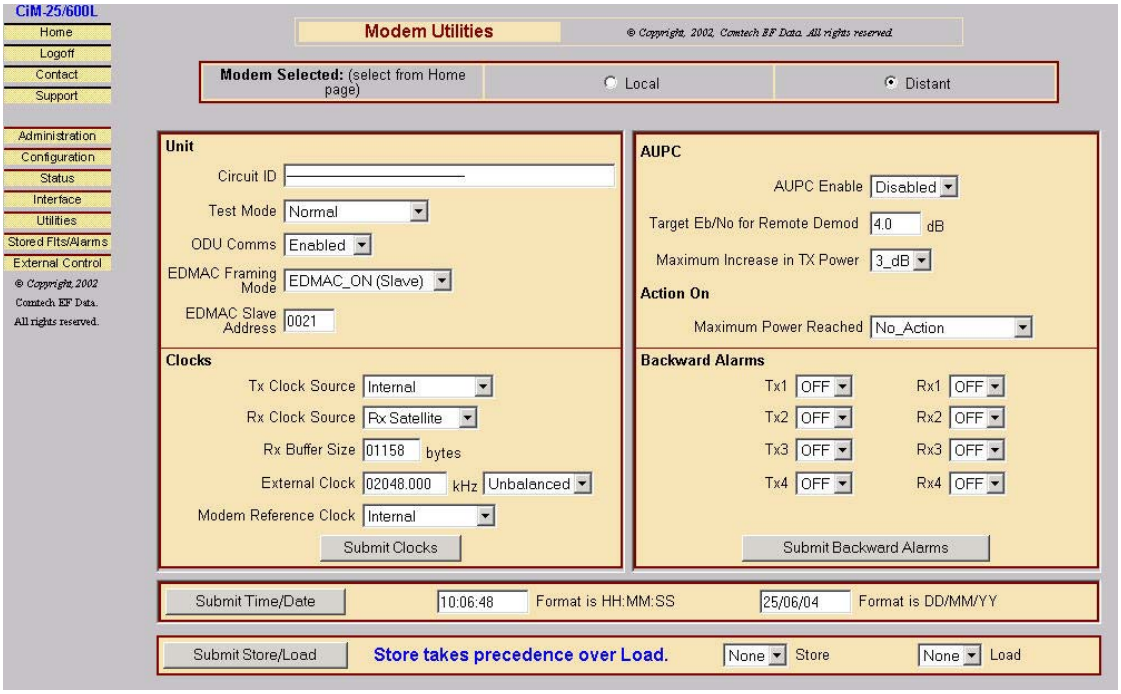
This page can be viewed by all three levels of user login. This is a Read Only Page and has no submit button. This page provides various status information for a CDM-600L Modem.

3.3.8 INTERFACE PARAMETERS PAGE (TX/RX)



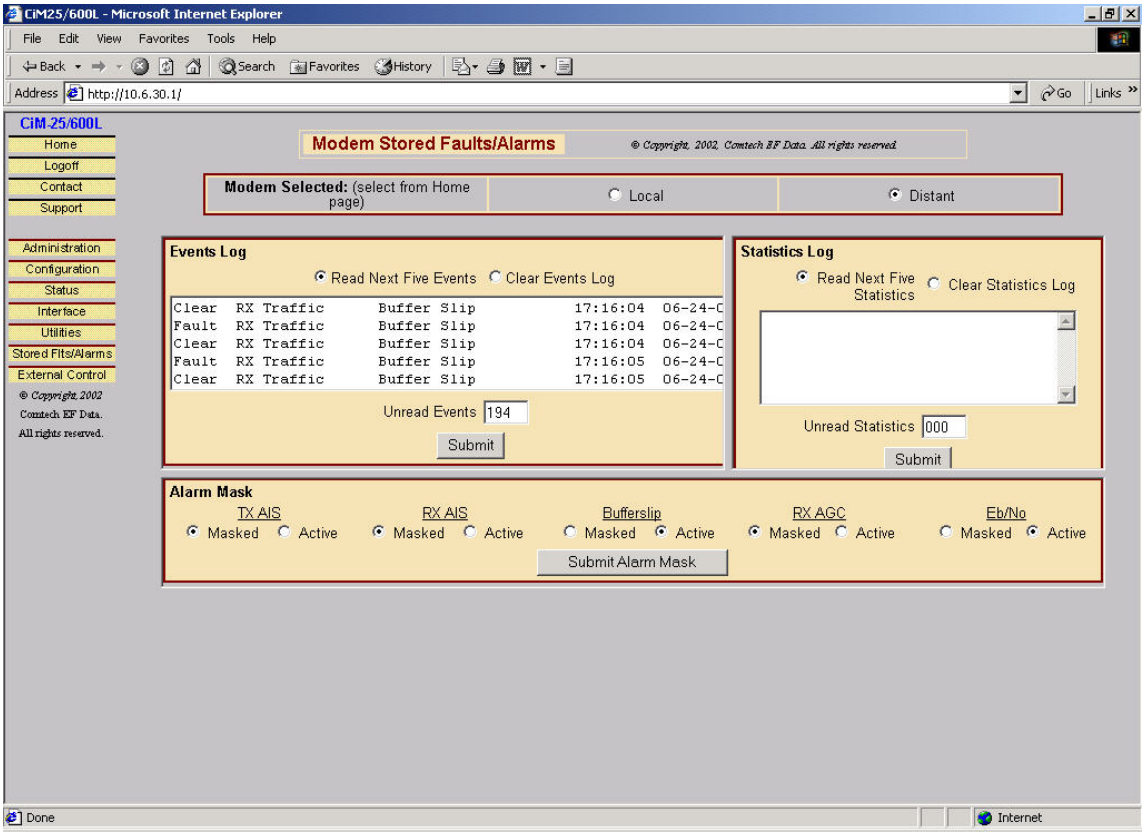
This page can be viewed by all three levels of user login. However, only user with Administrative or Read/Write privileges can submit changes to this page. This page allows the user to configure the Transmit and Receive Interface Parameters and Drop & Insert parameters of a CDM-600L Modem.

3.3.9 UTILITIES PAGE



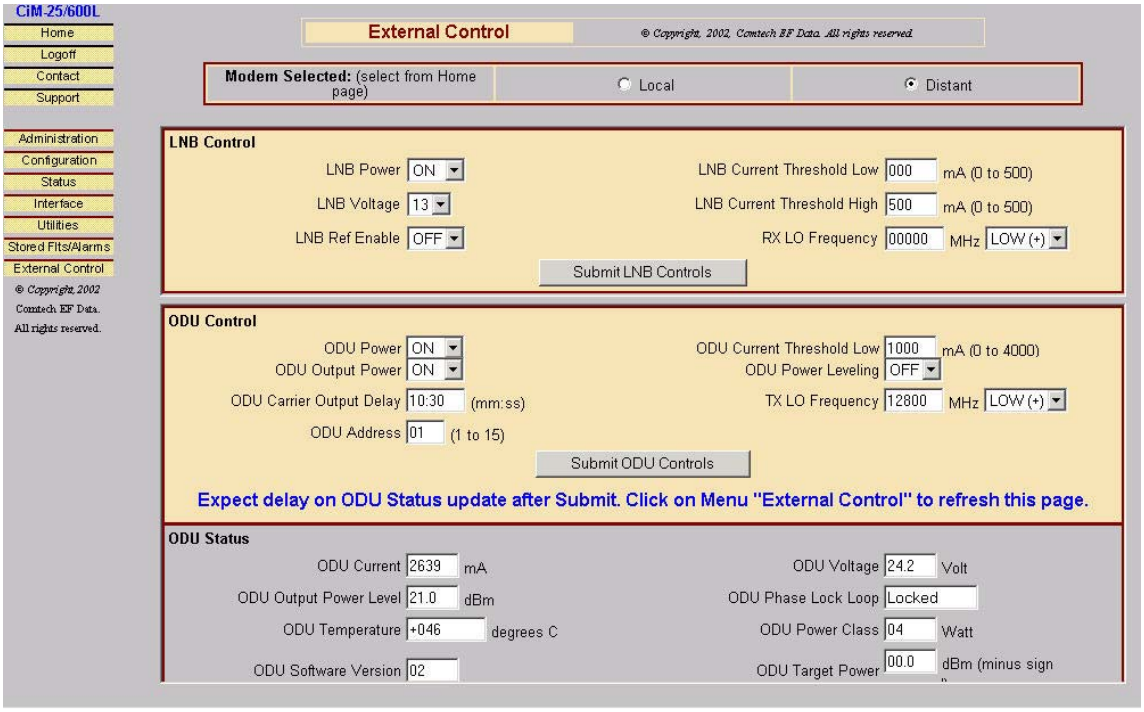
This page can be viewed by all three levels of user login. However, only user with Administrative or Read/Write privileges can submit changes to this page. This page allows the user to configure various utility functions on a CDM-600L Modem.

3.3.10 STORED FAULTS/ALARMS



This page can be viewed by all three levels of user login. This is a read/write page. This page allows the user to Read/Clear Events Log, Statistics Log, and configure Alarm Masks of the CDM-600L Modem.

3.3.11 EXTERNAL CONTROL

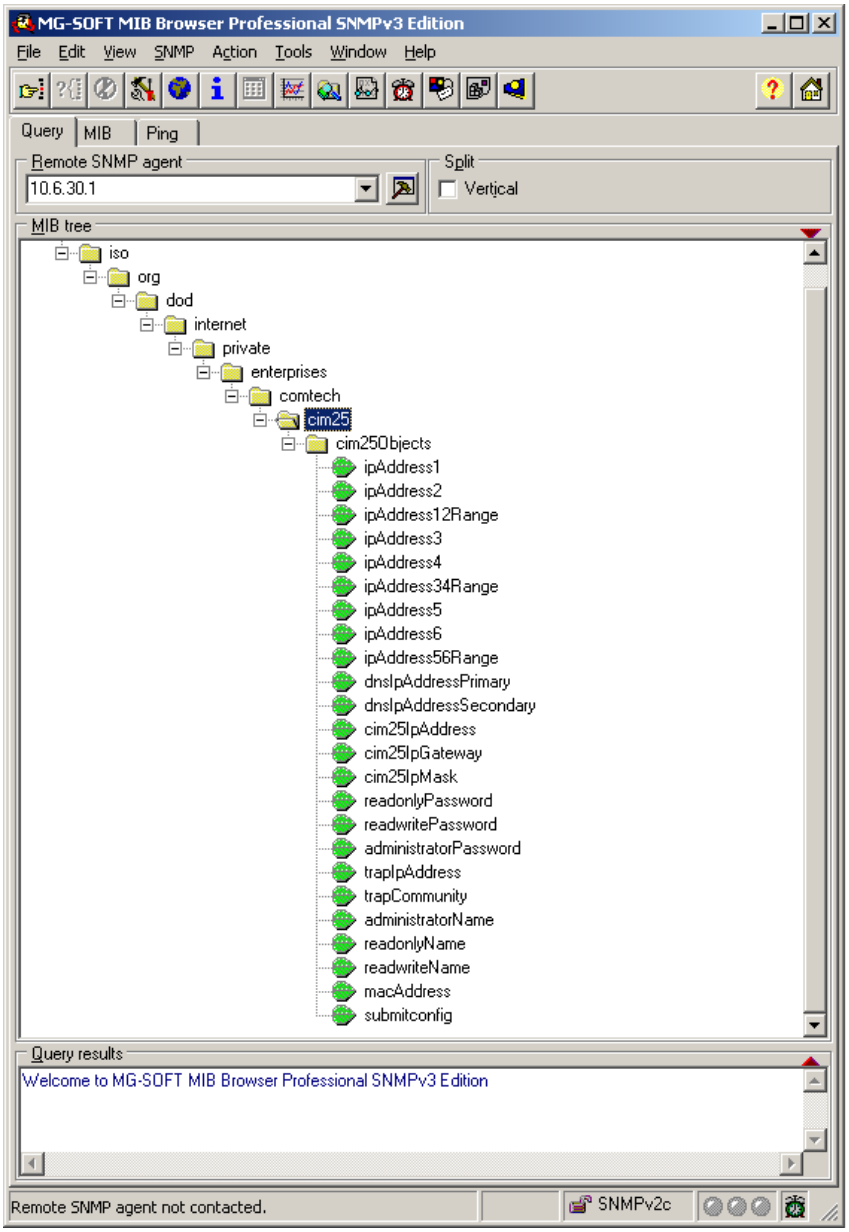


This page can be viewed by all three levels of user login. This is a read/write page. This page allows the user to set the LNB and ODU control parameters and check the ODU status of the CDM-600L Modem.

NOTE: There is a 10 second delay in ODU Status update after submitting an ODU Control change. Click the “External Control” menu button to refresh this page.

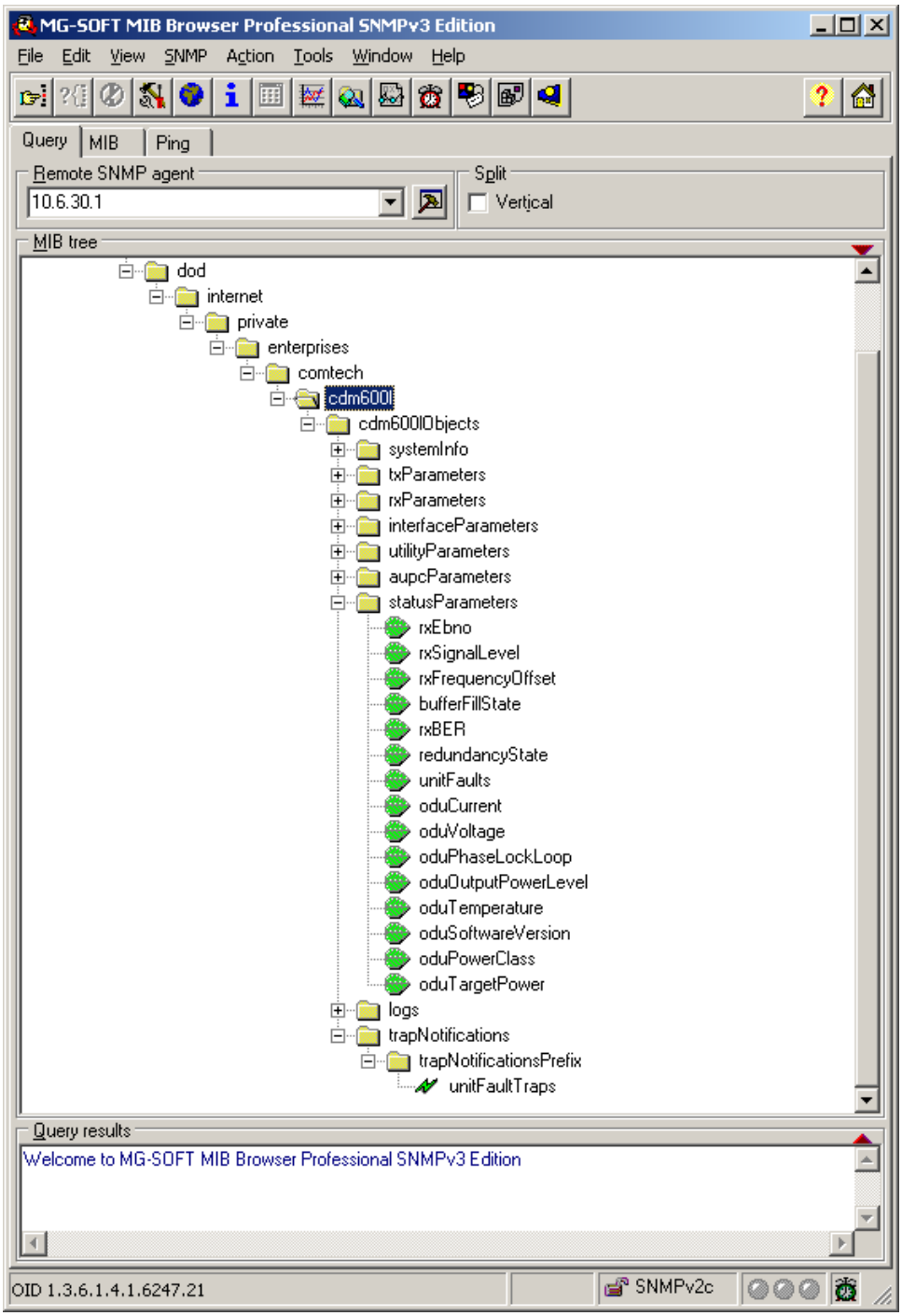
3.4 SNMP INTERFACE

The CiM-25 supports v2c version of the industry standard SNMP (Simple Network Management Protocol). The CiM-25 supports a complete private MIB for the attached equipment as well as a private MIB for the CiM-25 itself. The SNMP interface supports standard **Get** and **Set** as well as **Branch Walking**.



The image above is a screen dump of the CiM-25 MIB structure using a common MIB Browser. The important point here is that all administrative parameters of the CiM-25 are available in its private MIB.

The image below is a screen dump of the CDM-600L MIB using a common MIB Browser. The important point here is that all CDM-600L Controllable Parameters and Status Parameters, Events, and Statistics Log are available in its private CDM-600L MIB.

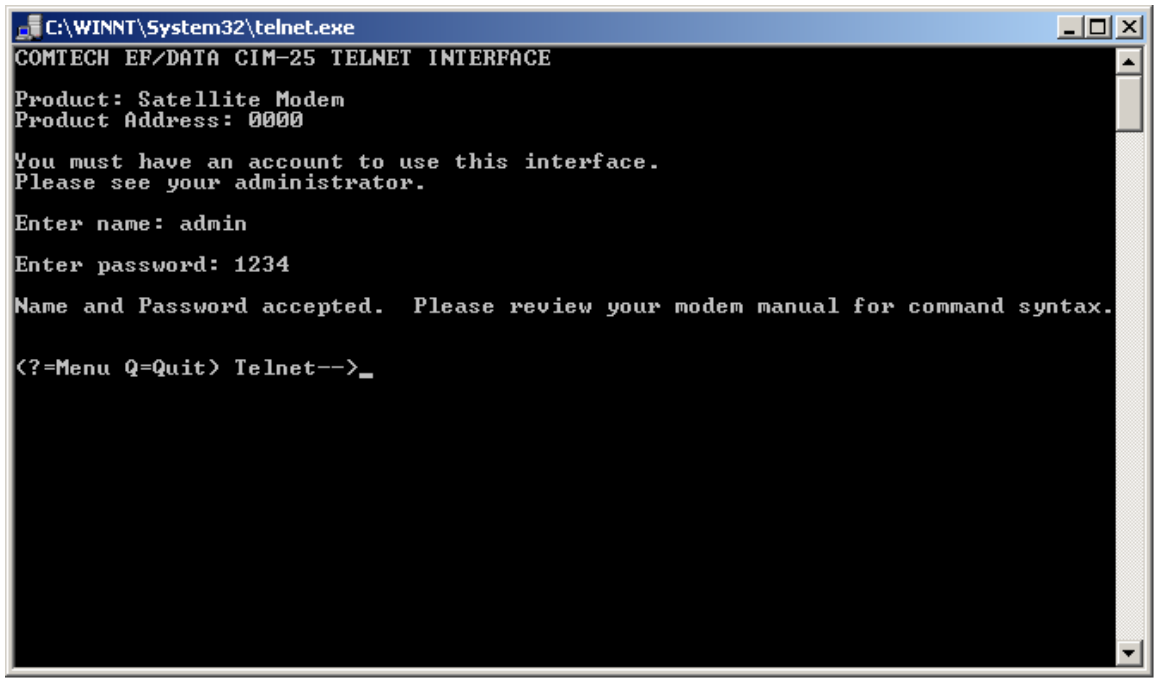


3.5 TELNET INTERFACE

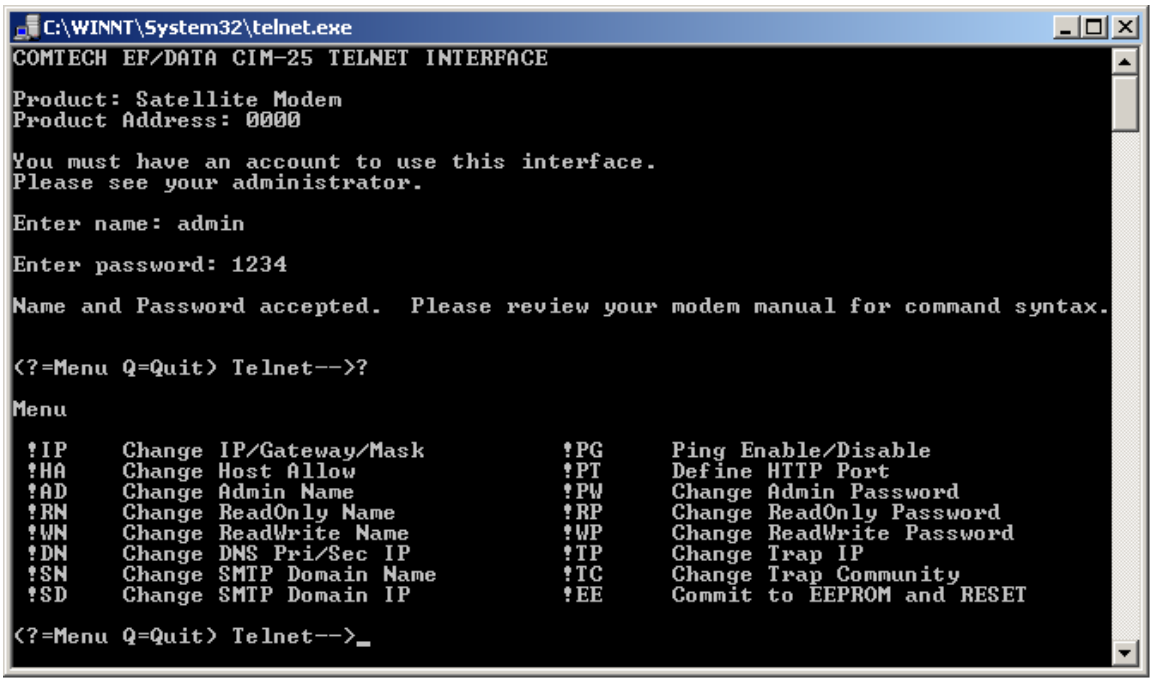
The CiM-25 provides a Telnet interface for three primary functions:

- System Administration.
- Equipment M&C via the standard equipment Remote Control protocol.
- Equipment M&C via Comtech EF Data PC based Monitor and Control applications.

The Telnet interface uses two (2) levels of user login, **Administrator** and **Read/Write**. The screen dump below shows the login process.



Once logged into the C*i*M-25 Telnet interface as the Administrator the user can use the built in menu function by typing a **?** (question mark). This menu is only available to the Administrator. The screen dump below shows the functions available via this menu system. Entering any command without any data parameters will cause the CiM-25 to respond with a message that provides the proper formatting requirements for the individual command. Entering any command with a **?** (question mark) as the parameter will cause the CiM-25 to respond with the current **Set** value. Each command will be explained in the following section.



3.5.1 TELNET ADMINISTRATIVE FUNCTIONS

3.5.1.1 CHANGE IP ADDRESS, GATEWAY AND MASK

Using the **!IP** command, the Administrator can change the IP Address, IP Gateway, and IP Mask. The command protocol for this command is as follows:

Format: **!IP <ip> <gateway> <mask>**

Example: **!IP 10.6.30.2 10.6.30.255 255.255.0.0**

Query Format: **!IP ?**
Response: **!IP 10.6.30.2 10.6.30.255 255.255.0.0**

Note: Changes made via this command do not become active until the user has sent a **!EE** command to commit the changes to EEPROM of the C*i*M-25.

3.5.1.2 CHANGE HOST ALLOW LIST

Using the **!HA** command, the Administrator can modify the Host Allow List. The command protocol for this command is as follows:

Format: **!HA <address index> <ip_address> <ranged>**
Where: address index is 1 to 6, ranged is 0 if No and 1 if yes

Example: **!HA 5 10.50.91.200 0**
This sets IP address #5 to 10.50.91.200 and indicates addresses #5 & #6 are NOT ranged.

Query Format: **!HA ?**
Response:

IP 1: 000.000.000.000	**IP 2: 255.255.255.255**	**Range = yes**
IP 3: 000.000.000.000	**IP 4: 000.000.000.000**	**Range = no**
IP 5: 000.000.000.000	**IP 6: 000.000.000.000**	**Range = no**

Note: Changes made via this command do not become active until the user has sent a **!EE** command to commit the changes to EEPROM of the C*i*M-25.

3.5.1.3 CHANGE ADMINISTRATOR NAME

Using the **!AD** command, the Administrator can change the Administrator login Name. The command protocol for this command is as follows:

Format: **!AD <string>**
Where: <string> can be any alphanumeric string of length 4 to 10 characters

Query Format: **!AD ?**
Response: **!AD <string>**

Note: Changes made via this command do not become active until the user has sent a **!EE** command to commit the changes to EEPROM of the CiM-25.

3.5.1.4 CHANGE ADMINISTRATOR PASSWORD

Using the **!PW** command, the Administrator can change the Administrator login Password. The command protocol for this command is as follows:

Format: **!PW <string>**
Where: <string> can be any alphanumeric string of length 4 to 10 characters

Query Format: **!PW ?**
Response: **!PW <string>**

Note: Changes made via this command do not become active until the user has sent a **!EE** command to commit the changes to EEPROM of the CiM-25.

3.5.1.5 CHANGE READ/WRITE NAME

Using the **!WN** command, the Administrator can change the Read/Write login Name. The command protocol for this command is as follows:

Format: **!WN <string>**
Where: <string> can be any alphanumeric string of length 4 to 10 characters

Query Format: **!WN ?**
Response: **!WN <string>**

Note: Changes made via this command do not become active until the user has sent a **!EE** command to commit the changes to EEPROM of the CiM-25.

3.5.1.6 CHANGE READ/WRITE PASSWORD

Using the **!WP** command, the Administrator can change the Read/Write login Password. The command protocol for this command is as follows:

Format: **!WP <string>**
Where: <string> can be any alphanumeric string of length 4 to 10 characters

Query Format: **!WP ?**
Response: **!WP <string>**

Note: Changes made via this command do not become active until the user has sent a **!EE** command to commit the changes to EEPROM of the CiM-25.

3.5.1.7 CHANGE READ ONLY NAME

Using the **!RN** command, the Administrator can change the Read Only login Name. The command protocol for this command is as follows:

Format: **!RN <string>**
Where: <string> can be any alphanumeric string of length 4 to 10 characters

Query Format: **!RN ?**
Response: **!RN <string>**

Note: Changes made via this command do not become active until the user has sent a **!EE** command to commit the changes to EEPROM of the CiM-25.

3.5.1.8 CHANGE READ ONLY PASSWORD

Using the **!RP** command, the Administrator can change the Read/Only login Password. The command protocol for this command is as follows:

Format: **!RP <string>**
Where: <string> can be any alphanumeric string of length 4 to 10 characters

Query Format: **!RP ?**
Response: **!RP <string>**

Note: Changes made via this command do not become active until the user has sent a **!EE** command to commit the changes to EEPROM of the CiM-25.

3.5.1.9 ENABLE OR DISABLE PING

Using the **!PG** command, the Administrator can either enable or disable PING. The command protocol for this command is as follows:

Format: **!PG <state>**
Where: 0 = Disabled, 1 = Enabled

Query Format: **!PG ?**
Response: **!PG <state>**

Note: Changes made via this command do not become active until the user has sent a **!EE** command to commit the changes to EEPROM of the CiM-25.

3.5.1.10 COMMIT CHANGES TO EEPROM

Using the **!EE** command, the Administrator can commit any previously commanded changes to EEPROM. This will store the new operating parameters and automatically do a warm reboot of the CiM-25/600L. The command protocol for this command is as follows:

Format: **!EE**

3.5.1.11 CHANGE PRIMARY/SECONDARY DNS IP ADDRESSES

Using the **!DN** command, the Administrator can set the primary and secondary DNS IP Addresses. The command protocol for this command is as follows:

Format: **!DN <primary DNS IP Address> <secondary DNS IP Address>**
Response: Command Successful

Query Format: **!DN ?**
Response: **!DN <primary DNS IP Address> <secondary DNS IP Address>**

Note: Changes made via this command do not become active until the user has sent a **!EE** command to commit the changes to EEPROM of the CiM-25.

3.5.1.12 CHANGE SMTP DOMAIN NAME

Using the **!SN** command, the Administrator can set the SMTP domain name. The command protocol for this command is as follows:

Format: **!SN <string>**
Response: **Command Successful**
Where: <string> can be any alphanumeric string with a length of 1 to 100 characters.

Note: **disabled** in the <string> field disables SMTP.

Query Format: **!SN ?**
Response: **!SN <string>**

Note: Changes made via this command do not become active until the user has sent a **!EE** command to commit the changes to EEPROM of the CiM-25.

3.5.1.13 CHANGE SMTP DOMAIN IP ADDRESS

Using the **!SD** command, the Administrator can set the SMTP Domain IP Address. The command protocol for this command is as follows:

Format: **!SD <ip_address>**
Response: **Command Successful**

Note: An IP Address of **0.0.0.0** disables SMTP.

Query Format: **!SD ?**
Response: **!SD <ip_address>**

Note: Changes made via this command do not become active until the user has sent a **!EE** command to commit the changes to EEPROM of the CiM-25.

3.5.1.14 CHANGE HTTP PORT

Using the **!PT** command, the Administrator can set the HTTP Port. The command protocol for this command is as follows:

Format: **!PT <value>**
Response: **Command Successful**
Where <value> can be any number in the range of 0 to 65535

Query Format: **!PT ?**
Response: **!PT <value>**

Notes:
1. The default port is set to 80.
2. Changes made via this command do not become active until the user has sent a **!EE** command to commit the changes to EEPROM of the CiM-25.

3.5.1.15 CHANGE SNMP TRAP ADDRESS

Using the **!TP** command, the Administrator can set the SNMP Trap Address. The command protocol for this command is as follows:

Format: **!TP <ip_address>**
Response: **Command Successful**

Note: An IP Address of **0.0.0.0** disables the trap

Query Format: **!TP ?**
Response: **!TP <ip_address>**

Note: Changes made via this command do not become active until the user has sent a **!EE** command to commit the changes to EEPROM of the CiM-25.

3.5.1.16 CHANGE SNMP TRAP COMMUNITY

Using the **!TC** command, the Administrator can set the SNMP Trap Community. The command protocol for this command is as follows:

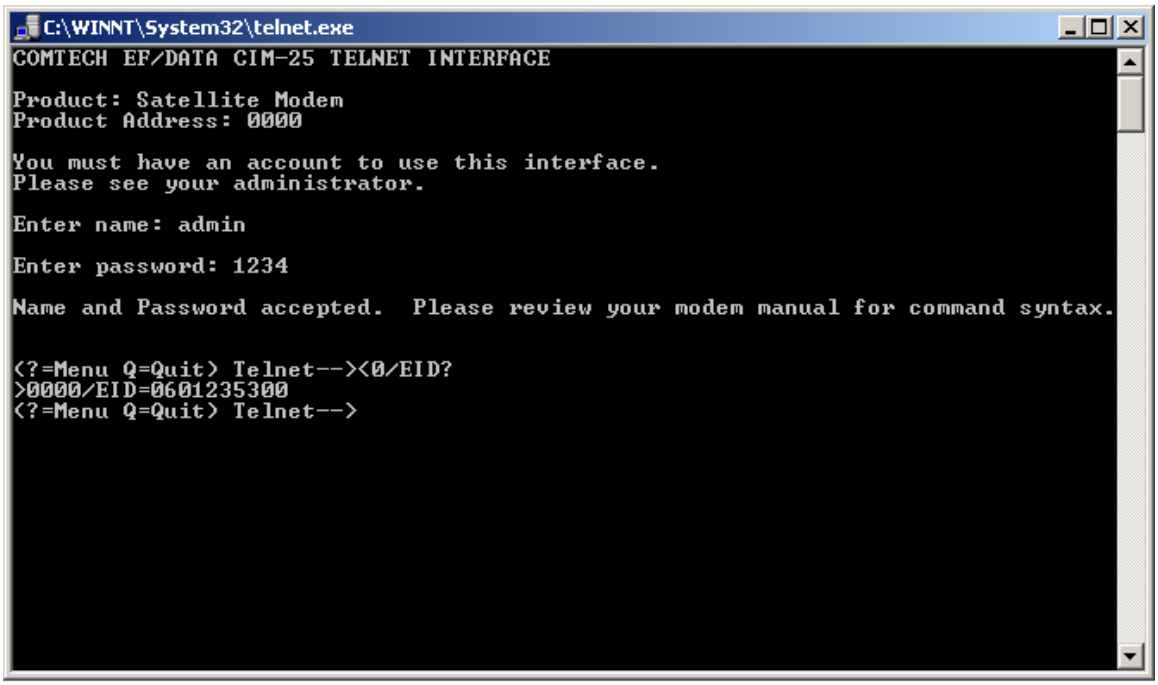
Format: **!TC <string>**
Response: **Command Successful**
where <string> can be 0 - 20 characters

Query Format: **!TC ?**
Response: **!TC <string>**

Note: Changes made via this command do not become active until the user has sent a **!EE** command to commit the changes to EEPROM of the CiM-25.

3.5.2 USING TELNET WITH EQUIPMENT REMOTE CONTROL PROTOCOL

The CiM-25/600L Telnet interface will accept any command defined in the particular interfacing equipments Remote Control Specification. See the equipments Operation Manual for details regarding the available commands and the message protocol. The screen dump below show an example of how to directly use the equipments Remote Control Protocol to communicate to the equipment via the Telnet interface.



3.6 MAINTENANCE INTERFACE

The default network configuration settings are:

- IP: **10.6.30.1**
- Admin Name: **admin**
- Admin Password: **1234**

The CiM-25 has been designed to support a means of allowing a customer to reset the unit back to the factory default settings, change the IP Address, and verify the software version. Use the following procedure to prepare for for making these changes.

Perform the following steps:

1 Disconnect the CiM-25 from both the interfacing equipment and the Ethernet Network.

2 Connect the CiM-25 to the serial port of a PC using a cable defined below (null cable):

CiM-25 pin 2 to PC pin 3
CiM-25 pin 3 to PC pin 2
CiM-25 pin 5 to PC pin 5

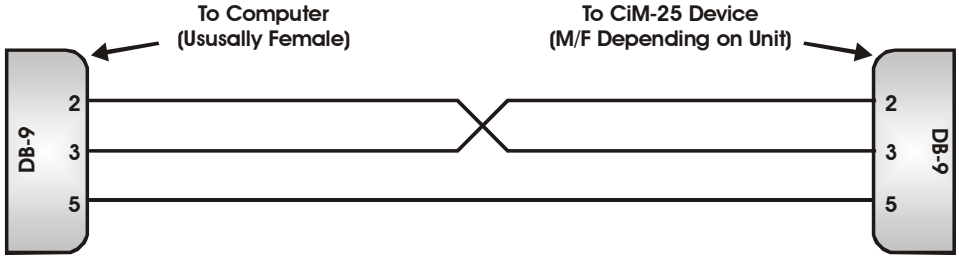


Figure 1. Null Cable Diagram

3 Power the CiM-25 using the Power Jack connector and a external 5 Vdc power supply.

4 Using a Serial Communication application such as Terminal, ProComm, etc., configure the PC's serial port to:

Baud: **19200**
Data rate: **8-N-1**

Use the procedures in following sections to:

- Reset to factory network defaults.
- Change network IP Address
- Verify software version.
- Change MAC Address
- Change Serial Number

3.6.1 RESETTING TO FACTORY DEFAULTS

1 Enter the following command:

Command: **<0/RST='cr'**

Response: **>0/RST=**

3.6.2 CHANGING NETWORK IP ADDRESS

Perform the following steps.

1 Enter the following command:

Command: **<0/IPA=xxx.xxx.xxx.xxx/yy'cr'**

Where x is the IP Address and y is the subnet mask.

Response: **>0/IPA=**

Example: **<0/IPA=192.168.001.002/16'cr'**

16 would be a subnet mask of 255.255.0.0

2 To query the IP address enter: **<0/IPA?'cr'**

3.6.3 VERIFYING SOFTWARE VERSION

Perform the following:

1 Enter the following command:

Command: **<0/SWR?'cr'**

Response: **>0/SWR= 1.0.1'cr'**

3.6.4 CHANGING MAC ADDRESS

Perform the following:

1 Enter the following command:

Command: **<0/MAC=xxxxxxxxx'cr'**

Where x is the MAC Address as shown on the label of the CiM-25.

Response: **>0/MAC=**

Example: **>0/MAC=006B0000000A'cr'**

2 To query the MAC Address enter: **>0/MAC?'cr'**

IMPORTANT

1. **The MAC Address is unique to this unit. Change only under the factory direction or if it does not match the label.**
2. **Changing the MAC Address to anything other than the factory default, may result in erratic operation.**

3.6.5 CHANGING SERIAL NUMBER

Perform the following:

1 Enter the following command:

Command: **<0/SNM=xxxxxxxxx'cr'**

Where x is the Serial Number as shown on the label of the CiM-25.

Response: **>0/SNM=**

Example: **>0/SNM=022080125A'cr'**

2 To query the Serial Number enter: **>0/SNM?'cr'**

The Serial Number is unique to this unit. Change only under the factory direction or if it does not match the label.

NOTES

Appendix A.
CiM-25/600L SNMP Interface

A.1 SNMP INTERFACE

The *Simple Network Management Protocol* (SNMP) is an application-layer protocol designed to facilitate the exchange of management information between network devices. The CiM-25/600L SNMP agent supports SNMP v2c.

A.2 MIB-II

The CiM-25/600L agent implements RFC 1213, Management Information Base for Network Management of TCP/IP-based Internets. This is known as “MIB-II support”. Please refer to RFC 1213 for this definition.

A.3 PRIVATE MIB IMPLEMENTATIONS

The agent also implements two private MIBs for the CiM-25/600L. The CiM IP Controller MIB (CiM-25) holds all the security, feature selection, and IP related parameters and the CDM-600L modem MIB which contains all the modem specific parameters.

A.4 CiM-25 MIB TREE

1 - 1 --- iso

2 - 1.3 --- org

3 - 1.3.6 --- dod

4 - 1.3.6.1 --- internet

5 - 1.3.6.1.4 --- private

6 - 1.3.6.1.4.1 --- enterprises

7 - 1.3.6.1.4.1.6247 --- comtech

8 - 1.3.6.1.4.1.6247.3 --- cim25

9 - 1.3.6.1.4.1.6247.3.1 --- cim25Objects

10 - 1.3.6.1.4.1.6247.3.1.1 --- ipAddress1 (IpAddress)

11 - 1.3.6.1.4.1.6247.3.1.2 --- ipAddress2 (IpAddress)

12 - 1.3.6.1.4.1.6247.3.1.3 --- ipAddress12Range (INTEGER)

13 - 1.3.6.1.4.1.6247.3.1.4 --- ipAddress3 (IpAddress)

14 - 1.3.6.1.4.1.6247.3.1.5 --- ipAddress4 (IpAddress)

15 - 1.3.6.1.4.1.6247.3.1.6 --- ipAddress34Range (INTEGER)

16 - 1.3.6.1.4.1.6247.3.1.7 --- ipAddress5 (IpAddress)

17 - 1.3.6.1.4.1.6247.3.1.8 --- ipAddress6 (IpAddress)

18 - 1.3.6.1.4.1.6247.3.1.9 --- ipAddress56Range (INTEGER)

19 - 1.3.6.1.4.1.6247.3.1.10 --- dnsIpAddressPrimary (IpAddress)

20 - 1.3.6.1.4.1.6247.3.1.11 --- dnsIpAddressSecondary (IpAddress)

21 - 1.3.6.1.4.1.6247.3.1.12 --- cim25IpAddress (IpAddress)

22 - 1.3.6.1.4.1.6247.3.1.13 --- cim25IpGateway (IpAddress)

23 - 1.3.6.1.4.1.6247.3.1.14 --- cim25IpMask (IpAddress)

24 - 1.3.6.1.4.1.6247.3.1.15 --- readonlyPassword (OCTET STRING)

25 - 1.3.6.1.4.1.6247.3.1.16 --- readwritePassword (OCTET STRING)

26 - 1.3.6.1.4.1.6247.3.1.17 --- administratorPassword (OCTET STRING)

27 - 1.3.6.1.4.1.6247.3.1.18 --- trapIpAddress1 (IpAddress)

27 - 1.3.6.1.4.1.6247.3.1.19 --- trapIpAddress2 (IpAddress)

28 - 1.3.6.1.4.1.6247.3.1.20 --- trapCommunity (OCTET STRING)

29 - 1.3.6.1.4.1.6247.3.1.21 --- administratorName (OCTET STRING)

30 - 1.3.6.1.4.1.6247.3.1.22 --- readonlyName (OCTET STRING)

31 - 1.3.6.1.4.1.6247.3.1.23 --- readwriteName (OCTET STRING)

32 - 1.3.6.1.4.1.6247.3.1.24 --- macAddress (OCTET STRING)

33 - 1.3.6.1.4.1.6247.3.1.25 --- submitconfig (INTEGER)

A.5 CiM-25 MIB

A.5.1 ISO

Name	iso
OID	1
Full path	iso(1)
Module	SNMPv2-SMI
Child	org
Type	OBJECT-IDENTIFIER

A.5.2 ORG

Name	org
OID	1.3
Full path	iso(1).org(3)
Module	SNMPv2-SMI
Parent	iso
Child	dod
Type	OBJECT-IDENTIFIER

A.5.3 DOD

Name	dod
OID	1.3.6
Full path	iso(1).org(3).dod(6)
Module	SNMPv2-SMI
Parent	org
Child	internet
Type	OBJECT-IDENTIFIER

A.5.4 INTERNET

Name	internet
OID	1.3.6.1
Full path	iso(1).org(3).dod(6).internet(1)
Module	SNMPv2-SMI
Parent	dod
Child	private
Type	OBJECT-IDENTIFIER

A.5.5 PRIVATE

Name	private
OID	1.3.6.1.4
Full path	iso(1).org(3).dod(6).internet(1).private(4)
Module	CIM25
Parent	internet
Child	enterprises
Type	OBJECT-IDENTIFIER

A.5.6 ENTERPRISES

Name	enterprises
OID	1.3.6.1.4.1
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1)
Module	CIM25
Parent	private
Child	comtech
Type	OBJECT-IDENTIFIER

A.5.7 COMTECH

Name	comtech
OID	1.3.6.1.4.1.6247
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247)
Module	CIM25
Parent	enterprises
Child	cim25
Type	OBJECT-IDENTIFIER

A.5.8 CIM25

Name	cim25
OID	1.3.6.1.4.1.6247.3
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cim25(3)
Module	CIM25
Parent	comtech
Child	cim25Objects
Type	OBJECT-IDENTIFIER

A.5.9 CIM25OBJECTS

Name	cim25Objects
OID	1.3.6.1.4.1.6247.3.1
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cim25(3).cim25Objects(1)
Module	CIM25
Parent	cim25
Child	ipAddress1
Type	OBJECT-IDENTIFIER

A.5.10 IPADDRESS1

Name	ipAddress1
OID	1.3.6.1.4.1.6247.3.1.1
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cim25(3).cim25Objects(1).ipAddress1(1)
Module	CIM25
Parent	cim25Objects
Next sibling	ipAddress2
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_IPADDR
Base syntax	IpAddress
Composed syntax	IpAddress
Status	current
Max-access	read-write
Description	IP Address 1 or IP Address 1 Start Range.

A.5.11 IPADDRESS2

Name	ipAddress2
OID	1.3.6.1.4.1.6247.3.1.2
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cim25(3).cim25Objects(1).ipAddress2(2)
Module	CIM25
Parent	cim25Objects
Prev sibling	ipAddress1
Next sibling	ipAddress12Range
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_IPADDR
Base syntax	IpAddress
Composed syntax	IpAddress
Status	current
Max-access	read-write
Description	IP Address 2 or IP Address 1 End Range.

A.5.12 IPADDRESS12RANGE

Name	ipAddress12Range
OID	1.3.6.1.4.1.6247.3.1.3
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cim25(3).cim25Objects(1).ipAddress12Range(3)
Module	CIM25
Parent	cim25Objects
Prev sibling	ipAddress2
Next sibling	ipAddress3
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	no(0)
2	yes(1)
Description	Range or Individual for IP Address 1 and 2.

A.5.13 IPADDRESS3

Name	ipAddress3
OID	1.3.6.1.4.1.6247.3.1.4
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cim25(3).cim25Objects(1).ipAddress3(4)
Module	CIM25
Parent	cim25Objects
Prev sibling	ipAddress12Range
Next sibling	ipAddress4
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_IPADDR
Base syntax	IpAddress
Composed syntax	IpAddress
Status	current
Max-access	read-write
Description	IP Address 3 or IP Address 2 Start Range.

A.5.14 IPADDRESS4

Name	ipAddress4
OID	1.3.6.1.4.1.6247.3.1.5
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cim25(3).cim25Objects(1).ipAddress4(5)
Module	CIM25
Parent	cim25Objects
Prev sibling	ipAddress3
Next sibling	ipAddress34Range
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_IPADDR
Base syntax	IpAddress
Composed syntax	IpAddress
Status	current
Max-access	read-write
Description	IP Address 4 or IP Address 2 End Range.

A.5.15 IPADDRESS34RANGE

Name	ipAddress34Range
OID	1.3.6.1.4.1.6247.3.1.6
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cim25(3).cim25Objects(1).ipAddress34Range(6)
Module	CIM25
Parent	cim25Objects
Prev sibling	ipAddress4
Next sibling	ipAddress5
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	no(0)
2	yes(1)
Description	Range or Individual for IP Address 3 and 4.

A.5.16 IPADDRESS5

Name	ipAddress5
OID	1.3.6.1.4.1.6247.3.1.7
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cim25(3).cim25Objects(1).ipAddress5(7)
Module	CIM25
Parent	cim25Objects
Prev sibling	ipAddress34Range
Next sibling	ipAddress6
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_IPADDR
Base syntax	IpAddress
Composed syntax	IpAddress
Status	current
Max-access	read-write
Description	IP Address 5 or IP Address 3 Start Range.

A.5.17 IPADDRESS6

Name	ipAddress6
OID	1.3.6.1.4.1.6247.3.1.8
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cim25(3).cim25Objects(1).ipAddress6(8)
Module	CIM25
Parent	cim25Objects
Prev sibling	ipAddress5
Next sibling	ipAddress56Range
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_IPADDR
Base syntax	IpAddress
Composed syntax	IpAddress
Status	current
Max-access	read-write
Description	IP Address 6 or IP Address 3 End Range.

A.5.18 IPADDRESS56RANGE

Name	ipAddress56Range
OID	1.3.6.1.4.1.6247.3.1.9
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cim25(3).cim25Objects(1).ipAddress56Range(9)
Module	CIM25
Parent	cim25Objects
Prev sibling	ipAddress6
Next sibling	dnsIpAddressPrimary
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	no(0)
2	yes(1)
Description	Range or Individual for IP Address 5 and 6.

A.5.19 DNSIPADDRESSPRIMARY

Name	dnsIpAddressPrimary
OID	1.3.6.1.4.1.6247.3.1.10
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cim25(3).cim25Objects(1).dnsIpAddressPrimary(10)
Module	CIM25
Parent	cim25Objects
Prev sibling	ipAddress56Range
Next sibling	dnsIpAddressSecondary
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_IPADDR
Base syntax	IpAddress
Composed syntax	IpAddress
Status	current
Max-access	read-write
Description	Primary DNS IP Address.

A.5.20 DNSIPADDRESSSECONDARY

Name	dnsIpAddressSecondary
OID	1.3.6.1.4.1.6247.3.1.11
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cim25(3).cim25Objects(1).dnsIpAddressSecondary(11)
Module	CIM25
Parent	cim25Objects
Prev sibling	dnsIpAddressPrimary
Next sibling	cim25IpAddress
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_IPADDR
Base syntax	IpAddress
Composed syntax	IpAddress
Status	current
Max-access	read-write
Description	Secondary DNS IP Address.

A.5.21 CIM25IPADDRESS

Name	cim25IpAddress
OID	1.3.6.1.4.1.6247.3.1.12
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cim25(3).cim25Objects(1).cim25IpAddress(12)
Module	CIM25
Parent	cim25Objects
Prev sibling	dnsIpAddressSecondary
Next sibling	cim25IpGateway
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_IPADDR
Base syntax	IpAddress
Composed syntax	IpAddress
Status	current
Max-access	read-write
Description	CiM 25 IP Address.

A.5.22 CIM25IPGATEWAY

Name	cim25IpGateway
OID	1.3.6.1.4.1.6247.3.1.13
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cim25(3).cim25Objects(1).cim25IpGateway(13)
Module	CIM25
Parent	cim25Objects
Prev sibling	cim25IpAddress
Next sibling	cim25IpMask
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_IPADDR
Base syntax	IpAddress
Composed syntax	IpAddress
Status	current
Max-access	read-write
Description	CiM 25 IP Gateway

A.5.23 CIM25IPMASK

Name	cim25IpMask
OID	1.3.6.1.4.1.6247.3.1.14
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cim25(3).cim25Objects(1).cim25IpMask(14)
Module	CIM25
Parent	cim25Objects
Prev sibling	cim25IpGateway
Next sibling	readonlyPassword
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_IPADDR
Base syntax	IpAddress
Composed syntax	IpAddress
Status	current
Max-access	read-write
Description	CiM25 IP Mask.

A.5.24 READONLYPASSWORD

Name	readonlyPassword
OID	1.3.6.1.4.1.6247.3.1.15
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cim25(3).cim25Objects(1).readonlyPassword(15)
Module	CIM25
Parent	cim25Objects
Prev sibling	cim25IpMask
Next sibling	readwritePassword
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_OCTETS
Base syntax	OCTET STRING
Composed syntax	OCTET STRING
Status	current
Max-access	read-write
Size list	
1	4..10
Description	Read-Only Password.

A.5.25 READWRITEPASSWORD

Name	readwritePassword
OID	1.3.6.1.4.1.6247.3.1.16
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cim25(3).cim25Objects(1).readwritePassword(16)
Module	CIM25
Parent	cim25Objects
Prev sibling	readonlyPassword
Next sibling	administratorPassword
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_OCTETS
Base syntax	OCTET STRING
Composed syntax	OCTET STRING
Status	current
Max-access	read-write
Size list	
1	4..10
Description	Read-Write Password.

A.5.26 ADMINISTRATORPASSWORD

Name	administratorPassword
OID	1.3.6.1.4.1.6247.3.1.17
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cim25(3).cim25Objects(1).administratorPassword(17)
Module	CIM25
Parent	cim25Objects
Prev sibling	readwritePassword
Next sibling	trapIpAddress
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_OCTETS
Base syntax	OCTET STRING
Composed syntax	OCTET STRING
Status	current
Max-access	read-write
Size list	
1	4..10
Description	Administrator Password.

A.5.27 TRAPIPADDRESS1

Name	TrapIpAddress1
OID	1.3.6.1.4.1.6247.3.1.18
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cim25(3).cim25Objects(1).trapIpAddress(18)
Module	CIM25
Parent	cim25Objects
Prev sibling	administratorPassword
Next sibling	trapCommunity
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_IPADDR
Base syntax	IpAddress
Composed syntax	IpAddress
Status	current
Max-access	read-write
Description	Trap IP Address1.

A.5.28 TRAPIPADDRESS2

Name	TrapIpAddress2
OID	1.3.6.1.4.1.6247.3.1.19
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cim25(3).cim25Objects(1).trapIpAddress(19)
Module	CIM25
Parent	cim25Objects
Prev sibling	administratorPassword
Next sibling	trapCommunity
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_IPADDR
Base syntax	IpAddress
Composed syntax	IpAddress
Status	current
Max-access	read-write
Description	Trap IP Address2.

A.5.29 TRAPCOMMUNITY

Name	trapCommunity
OID	1.3.6.1.4.1.6247.3.1.20
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cim25(3).cim25Objects(1).trapCommunity(20)
Module	CIM25
Parent	cim25Objects
Prev sibling	trapIpAddress
Next sibling	administratorName
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_OCTETS
Base syntax	OCTET STRING
Composed syntax	OCTET STRING
Status	current
Max-access	read-write
Size list	
1	0..20
Description	Trap Community.

A.5.30 ADMINISTRATORNAME

Name	administratorName
OID	1.3.6.1.4.1.6247.3.1.21
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cim25(3).cim25Objects(1).administratorName(21)
Module	CIM25
Parent	cim25Objects
Prev sibling	trapCommunity
Next sibling	readonlyName
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_OCTETS
Base syntax	OCTET STRING
Composed syntax	OCTET STRING
Status	current
Max-access	read-write
Size list	
1	5..10
Description	Administrator User Name.

A.5.31 READONLYNAME

Name	readonlyName
OID	1.3.6.1.4.1.6247.3.1.22
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cim25(3).cim25Objects(1).readonlyName(22)
Module	CIM25
Parent	cim25Objects
Prev sibling	administratorName
Next sibling	readwriteName
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_OCTETS
Base syntax	OCTET STRING
Composed syntax	OCTET STRING
Status	current
Max-access	read-write
Size list	
1	5..10
Description	Read-Only User Name.

A.5.32 READWRITENAME

Name	readwriteName
OID	1.3.6.1.4.1.6247.3.1.23
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cim25(3).cim25Objects(1).readwriteName(23)
Module	CIM25
Parent	cim25Objects
Prev sibling	readonlyName
Next sibling	macAddress
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_OCTETS
Base syntax	OCTET STRING
Composed syntax	OCTET STRING
Status	current
Max-access	read-write
Size list	
1	5..10
Description	Read-Write User Name.

A.5.33 MACADDRESS

Name	macAddress
OID	1.3.6.1.4.1.6247.3.1.24
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cim25(3).cim25Objects(1).macAddress(24)
Module	CIM25
Parent	cim25Objects
Prev sibling	readwriteName
Next sibling	submitconfig
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_OCTETS
Base syntax	OCTET STRING
Composed syntax	OCTET STRING
Status	current
Max-access	read-only
Size list	
1	12
Description	MAC Address.

A.5.34 SUBMITCONFIG

Name	submitconfig
OID	1.3.6.1.4.1.6247.3.1.25
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cim25(3).cim25Objects(1).submitconfig(25)
Module	CIM25
Parent	cim25Objects
Prev sibling	macAddress
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	submit(1)
Description	Submit changes in CiM 25 Configuration

A.6 CDM-600L MIB TREE:

1 - 1 --- iso

2 - 1.3 --- org

3 - 1.3.6 --- dod

4 - 1.3.6.1 --- internet

5 - 1.3.6.1.4 --- private

6 - 1.3.6.1.4.1 --- enterprises

7 - 1.3.6.1.4.1.6247 --- comtech

8 - 1.3.6.1.4.1.6247.21 --- cdm600l

9 - 1.3.6.1.4.1.6247.21.1 --- cdm600lObjects

10 - 1.3.6.1.4.1.6247.21.1.1 --- modemSelect (INTEGER)

11 - 1.3.6.1.4.1.6247.21.1.2 --- systemInfo

12 - 1.3.6.1.4.1.6247.21.1.2.1 --- equipmentID (OCTET STRING)

13 - 1.3.6.1.4.1.6247.21.1.2.2 --- unitSerialNumber (OCTET STRING)

14 - 1.3.6.1.4.1.6247.21.1.2.3 --- softwareRevision (OCTET STRING)

15 - 1.3.6.1.4.1.6247.21.1.2.4 --- deviceTime (OCTET STRING)

16 - 1.3.6.1.4.1.6247.21.1.2.5 --- deviceDate (OCTET STRING)

17 - 1.3.6.1.4.1.6247.21.1.2.6 --- circuitID (OCTET STRING)

18 - 1.3.6.1.4.1.6247.21.1.2.7 --- localRemoteState (INTEGER)

19 - 1.3.6.1.4.1.6247.21.1.2.8 --- deviceTemperature (INTEGER)

20 - 1.3.6.1.4.1.6247.21.1.3 --- txParameters

21 - 1.3.6.1.4.1.6247.21.1.3.1 --- txFrequency (INTEGER)

22 - 1.3.6.1.4.1.6247.21.1.3.2 --- txDataRate (INTEGER)

23 - 1.3.6.1.4.1.6247.21.1.3.3 --- txModType (INTEGER)

24 - 1.3.6.1.4.1.6247.21.1.3.4 --- txFECType (INTEGER)

25 - 1.3.6.1.4.1.6247.21.1.3.5 --- txFECCodeRate (INTEGER)

26 - 1.3.6.1.4.1.6247.21.1.3.6 --- txSpecInv (INTEGER)

27 - 1.3.6.1.4.1.6247.21.1.3.7 --- txScrambler (INTEGER)

28 - 1.3.6.1.4.1.6247.21.1.3.8 --- txRSEncoding (INTEGER)

29 - 1.3.6.1.4.1.6247.21.1.3.9 --- txPowerLevel (INTEGER)

30 - 1.3.6.1.4.1.6247.21.1.3.10 --- txCarrierState (INTEGER)

31 - 1.3.6.1.4.1.6247.21.1.3.11 --- txDataInv (INTEGER)

32 - 1.3.6.1.4.1.6247.21.1.4 --- rxParameters

33 - 1.3.6.1.4.1.6247.21.1.4.1 --- rxFrequency (INTEGER)

34 - 1.3.6.1.4.1.6247.21.1.4.2 --- rxDataRate (INTEGER)

35 - 1.3.6.1.4.1.6247.21.1.4.3 --- rxDemodType (INTEGER)

36 - 1.3.6.1.4.1.6247.21.1.4.4 --- rxFECType (INTEGER)

37 - 1.3.6.1.4.1.6247.21.1.4.5 --- rxFECCodeRate (INTEGER)

38 - 1.3.6.1.4.1.6247.21.1.4.6 --- rxSpecInv (INTEGER)

39 - 1.3.6.1.4.1.6247.21.1.4.7 --- rxDescrambler (INTEGER)

40 - 1.3.6.1.4.1.6247.21.1.4.8 --- rxRSDecoding (INTEGER)

41 - 1.3.6.1.4.1.6247.21.1.4.9 --- rxDataInv (INTEGER)

42 - 1.3.6.1.4.1.6247.21.1.4.10 --- rxAcqSweepRange (INTEGER)

43 - 1.3.6.1.4.1.6247.21.1.4.11 --- rxEbnoAlarmPoint (INTEGER)

44 - 1.3.6.1.4.1.6247.21.1.5 --- interfaceParameters

45 - 1.3.6.1.4.1.6247.21.1.5.1 --- txInterfaceType (INTEGER)

46 - 1.3.6.1.4.1.6247.21.1.5.2 --- rxInterfaceType (INTEGER)

47 - 1.3.6.1.4.1.6247.21.1.5.3 --- txFramingMode (INTEGER)

48 - 1.3.6.1.4.1.6247.21.1.5.4 --- rxFramingMode (INTEGER)

49 - 1.3.6.1.4.1.6247.21.1.5.5 --- txClockSource (INTEGER)

50 - 1.3.6.1.4.1.6247.21.1.5.6 --- rxClockSource (INTEGER)

51 - 1.3.6.1.4.1.6247.21.1.5.7 --- rxBufferSize (INTEGER)

52 - 1.3.6.1.4.1.6247.21.1.5.8 --- externalClock (OCTET STRING)

53 - 1.3.6.1.4.1.6247.21.1.5.9 --- modemReferenceClock (INTEGER)

54 - 1.3.6.1.4.1.6247.21.1.5.10 --- txTernaryCode (INTEGER)

55 - 1.3.6.1.4.1.6247.21.1.5.11 --- rxTernaryCode (INTEGER)

56 - 1.3.6.1.4.1.6247.21.1.5.12 --- idrTxESCType (INTEGER)

57 - 1.3.6.1.4.1.6247.21.1.5.13 --- idrRxESCType (INTEGER)

58 - 1.3.6.1.4.1.6247.21.1.5.14 --- txAudioVolume (OCTET STRING)

59 - 1.3.6.1.4.1.6247.21.1.5.15 --- rxAudioVolume (OCTET STRING)

60 - 1.3.6.1.4.1.6247.21.1.5.16 --- dropAndInsert (OCTET STRING)

61 - 1.3.6.1.4.1.6247.21.1.5.17 --- txTerrestrialAlarmMask (INTEGER)

62 - 1.3.6.1.4.1.6247.21.1.5.18 --- rxTerrestrialAlarmEnable (INTEGER)

63 - 1.3.6.1.4.1.6247.21.1.5.19 --- recenterBuffer (INTEGER)

64 - 1.3.6.1.4.1.6247.21.1.6 --- utilityParameters

65 - 1.3.6.1.4.1.6247.21.1.6.1 --- edmacFramingMode (INTEGER)

66 - 1.3.6.1.4.1.6247.21.1.6.2 --- edmacAddress (INTEGER)

67 - 1.3.6.1.4.1.6247.21.1.6.3 --- unitTestMode (INTEGER)

68 - 1.3.6.1.4.1.6247.21.1.6.4 --- unitAlarmMask (INTEGER)

69 - 1.3.6.1.4.1.6247.21.1.6.5 --- txBackwardAlarmEnable (INTEGER)

70 - 1.3.6.1.4.1.6247.21.1.6.6 --- rxBackwardAlarmEnable (INTEGER)

71 - 1.3.6.1.4.1.6247.21.1.6.7 --- unitConfigStore (INTEGER)

72 - 1.3.6.1.4.1.6247.21.1.6.8 --- unitConfigLoad (INTEGER)

73 - 1.3.6.1.4.1.6247.21.1.6.9 --- oduCommEnable (INTEGER)

74 - 1.3.6.1.4.1.6247.21.1.6.10 --- lnbPower (INTEGER)

75 - 1.3.6.1.4.1.6247.21.1.6.11 --- lnbVoltage (INTEGER)

76 - 1.3.6.1.4.1.6247.21.1.6.12 --- lnbRefEnable (INTEGER)

77 - 1.3.6.1.4.1.6247.21.1.6.13 --- lnbThresholdLow (INTEGER)

78 - 1.3.6.1.4.1.6247.21.1.6.14 --- lnbThresholdHigh (INTEGER)

79 - 1.3.6.1.4.1.6247.21.1.6.15 --- rxLOFrequency (OCTET STRING)

80 - 1.3.6.1.4.1.6247.21.1.6.16 --- oduPower (INTEGER)

81 - 1.3.6.1.4.1.6247.21.1.6.17 --- oduRefEnable (INTEGER)

82 - 1.3.6.1.4.1.6247.21.1.6.18 --- oduThresholdLow (INTEGER)

83 - 1.3.6.1.4.1.6247.21.1.6.19 --- oduThresholdHigh (INTEGER)

84 - 1.3.6.1.4.1.6247.21.1.6.20 --- oduOutputPower (INTEGER)

85 - 1.3.6.1.4.1.6247.21.1.6.21 --- oduPowerLeveling (INTEGER)

86 - 1.3.6.1.4.1.6247.21.1.6.22 --- oduCarrierOutputDelay (OCTET STRING)

87 - 1.3.6.1.4.1.6247.21.1.6.23 --- txLOFrequency (OCTET STRING)

88 - 1.3.6.1.4.1.6247.21.1.6.24 --- oduAddress (INTEGER)

89 - 1.3.6.1.4.1.6247.21.1.7 --- aupcParameters

90 - 1.3.6.1.4.1.6247.21.1.7.1 --- aupcEnable (INTEGER)

91 - 1.3.6.1.4.1.6247.21.1.7.2 --- aupcControlParameters (OCTET STRING)

92 - 1.3.6.1.4.1.6247.21.1.7.3 --- remoteEbno (INTEGER)

93 - 1.3.6.1.4.1.6247.21.1.7.4 --- txPowerLevelIncrease (INTEGER)

94 - 1.3.6.1.4.1.6247.21.1.8 --- statusParameters

95 - 1.3.6.1.4.1.6247.21.1.8.1 --- rxEbno (INTEGER)

96 - 1.3.6.1.4.1.6247.21.1.8.2 --- rxSignalLevel (OCTET STRING)

97 - 1.3.6.1.4.1.6247.21.1.8.3 --- rxFrequencyOffset (INTEGER)

98 - 1.3.6.1.4.1.6247.21.1.8.4 --- bufferFillState (INTEGER)

99 - 1.3.6.1.4.1.6247.21.1.8.5 --- rxBER (Unsigned32)

100 - 1.3.6.1.4.1.6247.21.1.8.6 --- redundancyState (INTEGER)

101 - 1.3.6.1.4.1.6247.21.1.8.7 --- unitFaults (INTEGER)

102 - 1.3.6.1.4.1.6247.21.1.8.8 --- oduCurrent (INTEGER)

103 - 1.3.6.1.4.1.6247.21.1.8.9 --- oduVoltage (INTEGER)

104 - 1.3.6.1.4.1.6247.21.1.8.10 --- oduPhaseLockLoop (INTEGER)

105 - 1.3.6.1.4.1.6247.21.1.8.11 --- oduOutputPowerLevel (INTEGER)

106 - 1.3.6.1.4.1.6247.21.1.8.12 --- oduTemperature (INTEGER)

107 - 1.3.6.1.4.1.6247.21.1.8.13 --- oduSoftwareVersion (INTEGER)

108 - 1.3.6.1.4.1.6247.21.1.8.14 --- oduPowerClass (INTEGER)

109 - 1.3.6.1.4.1.6247.21.1.8.15 --- oduTargetPower (INTEGER)

110 - 1.3.6.1.4.1.6247.21.1.9 --- logs

111 - 1.3.6.1.4.1.6247.21.1.9.1 --- clearEventsLog (INTEGER)

112 - 1.3.6.1.4.1.6247.21.1.9.2 --- numberUnreadEvents (INTEGER)

113 - 1.3.6.1.4.1.6247.21.1.9.3 --- retrieveNext5Events (OCTET STRING)

114 - 1.3.6.1.4.1.6247.21.1.9.4 --- setStatisticInterval (INTEGER)

115 - 1.3.6.1.4.1.6247.21.1.9.5 --- clearStatisticsLog (INTEGER)

116 - 1.3.6.1.4.1.6247.21.1.9.6 --- numberUnreadStatistics (INTEGER)

117 - 1.3.6.1.4.1.6247.21.1.9.7 --- retrieveNext5Statistics (OCTET STRING)

118 - 1.3.6.1.4.1.6247.21.1.10 --- trapNotifications

119 - 1.3.6.1.4.1.6247.21.1.10.0 --- trapNotificationsPrefix

120 - 1.3.6.1.4.1.6247.21.1.10.0.1 --- unitFaultTraps

121 - 1.3.6.1.4.1.6247.21.1.10.0.2 --- unitConfigChangeTrap

122 - 1.3.6.1.4.1.6247.21.1.10.0.3 --- unitCommFaultTrap

CDM-600L MIB

A.6.1 ISO

Name	iso
OID	1
Full path	iso(1)
Module	SNMPv2-SMI
Child	org
Type	OBJECT-IDENTIFIER

A.6.2 ORG

Name	org
OID	1.3
Full path	iso(1).org(3)
Module	SNMPv2-SMI
Parent	iso
Child	dod
Type	OBJECT-IDENTIFIER

A.6.3 DOD

Name	dod
OID	1.3.6
Full path	iso(1).org(3).dod(6)
Module	SNMPv2-SMI
Parent	org
Child	internet
Type	OBJECT-IDENTIFIER

A.6.4 INTERNET

Name	internet
OID	1.3.6.1
Full path	iso(1).org(3).dod(6).internet(1)
Module	SNMPv2-SMI
Parent	dod
Child	private
Type	OBJECT-IDENTIFIER

A.6.5 PRIVATE

Name	private
OID	1.3.6.1.4

Full path	iso(1).org(3).dod(6).internet(1).private(4)
Module	CDM600L
Parent	internet
Child	enterprises
Type	OBJECT-IDENTIFIER

A.6.6 ENTERPRISES

Name	enterprises
OID	1.3.6.1.4.1
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1)
Module	CDM600L
Parent	private
Child	comtech
Type	OBJECT-IDENTIFIER

A.6.7 COMTECH

Name	comtech
OID	1.3.6.1.4.1.6247
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247)
Module	CDM600L
Parent	enterprises
Child	cdm600l
Type	OBJECT-IDENTIFIER

A.6.8 CDM600L

Name	cdm600l
OID	1.3.6.1.4.1.6247.21
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cdm600l(21)
Module	CDM600L
Parent	comtech
Child	ModemSelect
Type	OBJECT-IDENTIFIER

A.6.9 CDM600LOBJECTS

Name	cdm600lObjects
OID	1.3.6.1.4.1.6247.21.1
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cdm600l(21).cdm600lObjects(1)
Module	CDM600L
Parent	cdm600l
Child	SystemInfo
Type	OBJECT-IDENTIFIER

A.6.10 MODEMSELECT

Name	ModemSelect
OID	1.3.6.1.4.1.6247.21.1.1
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cdm600l(21).cdm600lObjects(1).modemSelect(1)
Module	CDM600L
Parent	cdm600lObjects
Next sibling	systemInfo
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	local(1)
2	distant(2)
Description	Select Local Modem or Distant end Modem to communicate

A.6.11 SYSTEMINFO

Name	systemInfo
OID	1.3.6.1.4.1.6247.21.1.2
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cdm600l(21).cdm600lObjects(1).systemInfo(2)
Module	CDM600L
Parent	cdm600lObjects
Next sibling	txParameters
Child	equipmentID
Type	OBJECT-IDENTIFIER

A.6.12 EQUIPMENTID

Name	equipmentID
OID	1.3.6.1.4.1.6247.21.1.2.1
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cdm600l(21).cdm600lObjects(1).systemInfo(2).equipmentID(1)
Module	CDM600L
Parent	systemInfo
Next sibling	unitSerialNumber
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_OCTETS
Base syntax	OCTET STRING
Composed syntax	OCTET STRING
Status	current
Max-access	read-only
Size list	
1	10
Description	Equipment ID. (EID?)

A.6.13 UNITSERIALNUMBER

Name	unitSerialNumber
OID	1.3.6.1.4.1.6247.21.1.2.2
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cdm600l(21).cdm600lObjects(1).systemInfo(2).unitSerialNumber(2)
Module	CDM600L
Parent	systemInfo
Prev sibling	equipmentID
Next sibling	softwareRevision
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_OCTETS
Base syntax	OCTET STRING
Composed syntax	OCTET STRING
Status	current
Max-access	read-only
Size list	
1	9
Description	Unit Serial Number. (SNO?)

A.6.14 SOFTWAREREVISION

Name	softwareRevision
OID	1.3.6.1.4.1.6247.21.1.2.3
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).systemInfo(2).softwareRevision(3)
Module	CDM600L
Parent	systemInfo
Prev sibling	unitSerialNumber
Next sibling	deviceTime
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_OCTETS
Base syntax	OCTET STRING
Composed syntax	OCTET STRING
Status	current
Max-access	read-only
Size list	
1	5
Description	Software Revision. (SWR?)

A.6.15 DEVICETIME

Name	deviceTime
OID	1.3.6.1.4.1.6247.21.1.2.4
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).systemInfo(2).deviceTime(4)
Module	CDM600L
Parent	systemInfo
Prev sibling	softwareRevision
Next sibling	deviceDate
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_OCTETS
Base syntax	OCTET STRING
Composed syntax	OCTET STRING
Status	current
Max-access	read-write
Size list	
1	6
Description	Modem Time. (TIM?, TIM=)

A.6.16 DEVICEDATE

Name	deviceDate
OID	1.3.6.1.4.1.6247.21.1.2.5
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cdm600l(21).cdm600lObjects(1).systemInfo(2).deviceDate(5)
Module	CDM600L
Parent	systemInfo
Prev sibling	deviceTime
Next sibling	circuitID
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_OCTETS
Base syntax	OCTET STRING
Composed syntax	OCTET STRING
Status	current
Max-access	read-write
Size list	
1	6
Description	Modem Date. (DAY?, DAY=)

A.6.17 CIRCUITID

Name	circuitID
OID	1.3.6.1.4.1.6247.21.1.2.6
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cdm600l(21).cdm600lObjects(1).systemInfo(2).circuitID(6)
Module	CDM600L
Parent	systemInfo
Prev sibling	deviceDate
Next sibling	localRemoteState
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_OCTETS
Base syntax	OCTET STRING
Composed syntax	OCTET STRING
Status	current
Max-access	read-write
Size list	
1	40
Description	Circuit ID. (CID?, CID=)

A.6.18 LOCALREMOTESTATE

Name	localRemoteState
OID	1.3.6.1.4.1.6247.21.1.2.7
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).systemInfo(2).localRemoteState(7)
Module	CDM600L
Parent	systemInfo
Prev sibling	circuitID
Next sibling	deviceTemperature
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	local(0)
2	remote(1)
Description	Local/Remote State. (LRS?, LRS=)

A.6.19 DEVICETEMPERATURE

Name	deviceTemperature
OID	1.3.6.1.4.1.6247.21.1.2.8
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).systemInfo(2).deviceTemperature(8)
Module	CDM600L
Parent	systemInfo
Prev sibling	localRemoteState
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-only
Units	degrees C
Description	Modem Internal Temperature. (TMP?, TMP=)

A.6.20 TXPARAMETERS

Name	txParameters
OID	1.3.6.1.4.1.6247.21.1.3
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cdm600l(21).cdm600lObjects(1).txParameters(3)
Module	CDM600L
Parent	cdm600lObjects
Prev sibling	systemInfo
Next sibling	rxParameters
Child	txFrequency
Type	OBJECT-IDENTIFIER

A.6.21 TXFREQUENCY

Name	txFrequency
OID	1.3.6.1.4.1.6247.21.1.3.1
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cdm600l(21).cdm600lObjects(1).txParameters(3).txFrequency(1)
Module	CDM600L
Parent	txParameters
Next sibling	txDataRate
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Size list	
1	9500000..19500000
Description	TX Frequency. Value Multiplied by 10000. (TFQ?, TFQ=)

A.6.22 TXDATARATE

Name	txDataRate
OID	1.3.6.1.4.1.6247.21.1.3.2
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cdm600l(21).cdm600lObjects(1).txParameters(3).txDataRate(2)
Module	CDM600L
Parent	txParameters
Prev sibling	txFrequency
Next sibling	txModType
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Size list	
1	2400..20000000
Description	TX Data Rate. Value Multiplied by 1000. (TDR?, TDR=)

A.6.23 TXMODTYPE

Name	txModType
OID	1.3.6.1.4.1.6247.21.1.3.3
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cdm600l(21).cdm600lObjects(1).txParameters(3).txModType(3)
Module	CDM600L
Parent	txParameters
Prev sibling	txDataRate
Next sibling	txFECType
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	bpsk(0)
2	qpsk(1)
3	oqpsk(2)
4	tx8psk(3)
5	tx16qam(4)
6	Tx8qam(5)
Description	TX Modulator Type. (TMD?, TMD=)

A.6.24 TXFECTYPE

Name	txFECType
OID	1.3.6.1.4.1.6247.21.1.3.4
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).txParameters(3).txFECType(4)
Module	CDM600L
Parent	txParameters
Prev sibling	txModType
Next sibling	txFECCodeRate
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	none_Diff_enc_On(0)
2	viterbi(1)
3	viterbiReedSolomon(2)
4	sequential(3)
5	sequentialReedSolomon(4)
6	tcm(5)
7	tcmReedSolomon(6)
8	turbo(7)
9	none_Diff_enc_Off(8)
10	ldpc(9)
Description	TX FEC Type. (TFT?, TFT=)

A.6.25 TXFECCODERATE

Name	txFECCodeRate
OID	1.3.6.1.4.1.6247.21.1.3.5
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cdm600l(21).cdm600lObjects(1).txParameters(3).txFECCodeRate(5)
Module	CDM600L
Parent	txParameters
Prev sibling	txFECType
Next sibling	txSpecInv
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	rate1/2(0)
2	rate3/4(1)
3	rate7/8(2)
4	rate2/3(3)
5	rate1/1(4)
6	rate21/44(5)
7	rate5/16(6)
8	rate0_95(7)
Description	TX FEC Code Rate. (TCR?, TCR=)

A.6.26 TXSPECINV

Name	txSpecInv
OID	1.3.6.1.4.1.6247.21.1.3.6
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cdm600l(21).cdm600lObjects(1).txParameters(3).txSpecInv(6)
Module	CDM600L
Parent	txParameters
Prev sibling	txFECCodeRate
Next sibling	txScrambler
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	normal(0)
2	inverted(1)
Description	TX Spectrum Inversion. (TSI?, TSI=)

A.6.27 TXSCRAMBLER

Name	txScrambler
OID	1.3.6.1.4.1.6247.21.1.3.7
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cdm600l(21).cdm600lObjects(1).txParameters(3).txScrambler(7)
Module	CDM600L
Parent	txParameters
Prev sibling	txSpecInv
Next sibling	txRSEncoding
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	off(0)
2	on(1)
3	iess315_TurboOnly(2)
Description	TX Scrambler. (TSC?, TSC=)

A.6.28 TXRSENCODING

Name	txRSEncoding
OID	1.3.6.1.4.1.6247.21.1.3.8
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cdm600l(21).cdm600lObjects(1).txParameters(3).txRSEncoding(8)
Module	CDM600L
Parent	txParameters
Prev sibling	txScrambler
Next sibling	txPowerLevel
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	normal(0)
2	iess310(1)
3	efdata(2)
4	ibs(3)

A.6.29 TXPOWERLEVEL

Name	txPowerLevel
OID	1.3.6.1.4.1.6247.21.1.3.9
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cdm600l(21).cdm600lObjects(1).txParameters(3).txPowerLevel(9)
Module	CDM600L
Parent	txParameters
Prev sibling	txRSEncoding
Next sibling	txCarrierState
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Size list	
1	0..450
Description	TX Power Level. Value Multiplied by 10. (TPL?, TPL=)

A.6.30 TXCARRIERSTATE

Name	txCarrierState
OID	1.3.6.1.4.1.6247.21.1.3.10
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cdm600l(21).cdm600lObjects(1).txParameters(3).txCarrierState(10)
Module	CDM600L
Parent	txParameters
Prev sibling	txPowerLevel
Next sibling	txDataInv
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	offPanelORRemote(0)
2	on(1)
3	rti(2)
4	offExternal(3)
5	offBUCdelay(4)
Description	TX Carrier State. (TXO?, TXO=)

A.6.31 TXDATAINV

Name	txDataInv
OID	1.3.6.1.4.1.6247.21.1.3.11
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cdm600l(21).cdm600lObjects(1).txParameters(3).txDataInv(11)
Module	CDM600L
Parent	txParameters
Prev sibling	txCarrierState
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	normal(0)
2	inverted(1)
Description	Invert Tx Data. (ITD?, ITD=)

A.6.32 RXPARAMETERS

Name	rxParameters
OID	1.3.6.1.4.1.6247.21.1.4
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cdm600l(21).cdm600lObjects(1).rxParameters(4)
Module	CDM600L
Parent	cdm600lObjects
Prev sibling	txParameters
Next sibling	interfaceParameters
Child	rxFrequency
Type	OBJECT-IDENTIFIER

A.6.33 RXFREQUENCY

Name	rxFrequency
OID	1.3.6.1.4.1.6247.21.1.4.1
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).rxParameters(4).rxFrequency(1)
Module	CDM600L
Parent	rxParameters
Next sibling	rxDataRate
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Size list	
1	9500000..19500000
Description	RX Frequency. Value Multiplied by 10000. (RFQ?, RFQ=)

A.6.34 RXDATARATE

Name	rxDataRate
OID	1.3.6.1.4.1.6247.21.1.4.2
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).rxParameters(4).rxDataRate(2)
Module	CDM600L
Parent	rxParameters
Prev sibling	rxFrequency
Next sibling	rxDemodType
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Size list	
1	2400..20000000
Description	RX Data Rate. Value Multiplied by 1000. (RDR?, RDR=)

A.6.35 RXDEMODTYPE

Name	rxDemodType
OID	1.3.6.1.4.1.6247.21.1.4.3
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).rxParameters(4).rxDemodType(3)
Module	CDM600L
Parent	rxParameters
Prev sibling	rxDataRate
Next sibling	rxFECType
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	bpsk(0)
2	qpsk(1)
3	oqpsk(2)
4	rx8psk(3)
5	rx16qam(4)
6	Rx8qam(5)
Description	RX Demodulator Type. (RMD?, RMD=)

A.6.36 RXFECTYPE

Name	rxFECType
OID	1.3.6.1.4.1.6247.21.1.4.4
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).rxParameters(4).rxFECType(4)
Module	CDM600L
Parent	rxParameters
Prev sibling	rxDemodType
Next sibling	rxFECCodeRate
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	none_Diff_enc_On(0)
2	viterbi(1)
3	viterbiReedSolomon(2)
4	sequential(3)
5	sequentialReedSolomon(4)
6	tcm(5)
7	tcmReedSolomon(6)
8	turbo(7)
9	none_Diff_enc_Off(8)
10	ldpc(9)
Description	RX FEC Type. (RFT?, RFT=)

A.6.37 RXFECCODERATE

Name	rxFECCodeRate
OID	1.3.6.1.4.1.6247.21.1.4.5
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cdm600l(21).cdm600lObjects(1).rxParameters(4).rxFECCodeRate(5)
Module	CDM600L
Parent	rxParameters
Prev sibling	rxFECType
Next sibling	rxSpecInv
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	rate1/2(0)
2	rate3/4(1)
3	rate7/8(2)
4	rate2/3(3)
5	rate1/1(4)
6	rate21/44(5)
7	rate5/16(6)
8	rate0_95(7)
Description	RX FEC Code Rate. (RCR?, RCR=)

A.6.38 RXSPECINV

Name	rxSpecInv
OID	1.3.6.1.4.1.6247.21.1.4.6
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cdm600l(21).cdm600lObjects(1).rxParameters(4).rxSpecInv(6)
Module	CDM600L
Parent	rxParameters
Prev sibling	rxFECCodeRate
Next sibling	rxDescrambler
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	normal(0)
2	inverted(1)
Description	RX Spectrum Inversion. (RSI?, RSI=)

A.6.39 RXDESCRAMBLER

Name	rxDescrambler
OID	1.3.6.1.4.1.6247.21.1.4.7
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cdm600l(21).cdm600lObjects(1).rxParameters(4).rxDescrambler(7)
Module	CDM600L
Parent	rxParameters
Prev sibling	rxSpecInv
Next sibling	rxRSDecoding
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	off(0)
2	on(1)
3	Iess315_TurboOnly(2)
Description	RX Descrambler. (RDS?, RDS=)

A.6.40 RXRSDECODING

Name	rxRSDecoding
OID	1.3.6.1.4.1.6247.21.1.4.8
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cdm600l(21).cdm600lObjects(1).rxParameters(4).rxRSDecoding(8)
Module	CDM600L
Parent	rxParameters
Prev sibling	rxDescrambler
Next sibling	rxDataInv
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	normal(0)
2	iess310(1)
3	efdata(2)
4	ibs(3)
Description	Rx Reed-Solomon Decoding. (RRS?, RRS=)

A.6.41 RXDATAINV

Name	rxDataInv
OID	1.3.6.1.4.1.6247.21.1.4.9
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).rxParameters(4).rxDataInv(9)
Module	CDM600L
Parent	rxParameters
Prev sibling	rxRSDecoding
Next sibling	rxAcqSweepRange
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	normal(0)
2	inverted(1)
Description	Invert Rx Data. (IRD?, IRD=)

A.6.42 RXACQSWEEPRANGE

Name	rxAcqSweepRange
OID	1.3.6.1.4.1.6247.21.1.4.10
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).rxParameters(4).rxAcqSweepRange(10)
Module	CDM600L
Parent	rxParameters
Prev sibling	rxDataInv
Next sibling	rxEbnoAlarmPoint
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Size list	
1	1..32

A.6.43 RXEBNOALARMPOINT

Name	rxEbnoAlarmPoint
OID	1.3.6.1.4.1.6247.21.1.4.11
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).rxParameters(4).rxEbnoAlarmPoint(11)
Module	CDM600L
Parent	rxParameters
Prev sibling	rxAcqSweepRange
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Size list	
1	1..160
Description	RX EBN0 Alarm Point. Value Multiplied by 10. (EBA?, EBA=)

A.6.44 INTERFACEPARAMETERS

Name	interfaceParameters
OID	1.3.6.1.4.1.6247.21.1.5
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).interfaceParameters(5)
Module	CDM600L
Parent	cdm600lObjects
Prev sibling	rxParameters
Next sibling	utilityParameters
Child	txInterfaceType
Type	OBJECT-IDENTIFIER

A.6.45 TXINTERFACETYPE

Name	txInterfaceType
OID	1.3.6.1.4.1.6247.21.1.5.1
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).interfaceParameters(5).txInterfaceType(1)
Module	CDM600L
Parent	interfaceParameters
Next sibling	rxInterfaceType
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	rs422(0)
2	v35(1)
3	rs232(2)
4	g703balanced(3)
5	g703unbalanced(4)
6	audio(5)
7	lvds(6)
Description	Tx Interface Type. (TIT?, TIT=)

A.6.46 RXINTERFACETYPE

Name	rxInterfaceType
OID	1.3.6.1.4.1.6247.21.1.5.2
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).interfaceParameters(5).rxInterfaceType(2)
Module	CDM600L
Parent	interfaceParameters
Prev sibling	txInterfaceType
Next sibling	txFramingMode
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	rs422(0)
2	v35(1)
3	rs232(2)
4	g703balanced(3)
5	g703unbalanced(4)
6	audio(5)
7	lvds(6)
Description	Rx Interface Type. (RIT?, RIT=)

A.6.47 TXFRAMINGMODE

Name	txFramingMode
OID	1.3.6.1.4.1.6247.21.1.5.3
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).interfaceParameters(5).txFramingMode(3)
Module	CDM600L
Parent	interfaceParameters
Prev sibling	rxInterfaceType
Next sibling	rxFramingMode
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	unframed(0)
2	ibs(1)
3	idr(2)
4	drop(3)
5	edmac(4)
6	dni_plus_plus(5)
Description	Tx Framing Mode. (TFM?, TFM=)

A.6.48 RXFRAMINGMODE

Name	rxFramingMode
OID	1.3.6.1.4.1.6247.21.1.5.4
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).interfaceParameters(5).rxFramingMode(4)
Module	CDM600L
Parent	interfaceParameters
Prev sibling	txFramingMode
Next sibling	txClockSource
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	unframed(0)
2	ibs(1)
3	idr(2)
4	drop(3)
5	edmac(4)
6	dni_plus_plus(5)
Description	Rx Framing Mode. (RFM?, RFM=)

A.6.49 TXCLOCKSOURCE

Name	txClockSource
OID	1.3.6.1.4.1.6247.21.1.5.5
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).interfaceParameters(5).txClockSource(5)
Module	CDM600L
Parent	interfaceParameters
Prev sibling	rxFramingMode
Next sibling	rxClockSource
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	internal(0)
2	txTerrestrial(1)
3	rxLoopTimed(2)
4	external(3)
Description	TX Clock Source. (TCK?, TCK=)

A.6.50 RXCLOCKSOURCE

Name	rxClockSource
OID	1.3.6.1.4.1.6247.21.1.5.6
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).interfaceParameters(5).rxClockSource(6)
Module	CDM600L
Parent	interfaceParameters
Prev sibling	txClockSource
Next sibling	rxBufferSize
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	rxSatellite(0)
2	txTerrestrial(1)
3	external(2)
4	insert(3)
Description	RX Clock Source. (RCK?, RCK=)

A.6.51 RXBUFFERSIZE

Name	rxBufferSize
OID	1.3.6.1.4.1.6247.21.1.5.7
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).interfaceParameters(5).rxBufferSize(7)
Module	CDM600L
Parent	interfaceParameters
Prev sibling	rxClockSource
Next sibling	externalClock
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Size list	
1	16..32768
Description	RX Buffer Size. (RBS?, RBS=)

A.6.52 EXTERNALCLOCK

Name	externalClock
OID	1.3.6.1.4.1.6247.21.1.5.8
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).interfaceParameters(5).externalClock(8)
Module	CDM600L
Parent	interfaceParameters
Prev sibling	rxBufferSize
Next sibling	modemReferenceClock
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_OCTETS
Base syntax	OCTET STRING
Composed syntax	OCTET STRING
Status	current
Max-access	read-write
Size list	
1	10
Description	External Reference Value. (REF?, REF=)

A.6.53 MODEMREFERENCECLOCK

Name	modemReferenceClock
OID	1.3.6.1.4.1.6247.21.1.5.9
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).interfaceParameters(5).modemReferenceClock(9)
Module	CDM600L
Parent	interfaceParameters
Prev sibling	externalClock
Next sibling	txTernaryCode
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	internal(0)
2	external1MHz(1)
3	external2MHz(2)
4	external5MHz(3)
5	external10MHz(4)
6	external20MHz(5)
Description	Modem Reference Clock. (MRC?, MRC=)

A.6.54 TXTERNARYCODE

Name	txTernaryCode
OID	1.3.6.1.4.1.6247.21.1.5.10
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).interfaceParameters(5).txTernaryCode(10)
Module	CDM600L
Parent	interfaceParameters
Prev sibling	modemReferenceClock
Next sibling	rxTernaryCode
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	ami(0)
2	b8zs(1)
3	b6zs(2)
4	hdb3(3)
Description	Tx Ternary Code. (G.703 Parameter) (TTC?, TTC=)

A.6.55 RXTERNARYCODE

Name	rxTernaryCode
OID	1.3.6.1.4.1.6247.21.1.5.11
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).interfaceParameters(5).rxTernaryCode(11)
Module	CDM600L
Parent	interfaceParameters
Prev sibling	txTernaryCode
Next sibling	idrTxESCType
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	ami(0)
2	b8zs(1)
3	b6zs(2)
4	hdb3(3)
Description	Rx Ternary Code. (G.703 Parameter) (RTC?, RTC=)

A.6.56 IDRTXESCTYPE

Name	idrTxESCType
OID	1.3.6.1.4.1.6247.21.1.5.12
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).interfaceParameters(5).idrTxESCType(12)
Module	CDM600L
Parent	interfaceParameters
Prev sibling	rxTernaryCode
Next sibling	idrRxESCType
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	data(0)
2	audio(1)
Description	IDR Tx ESC Type. (IDR Parameter) (TET?, TET=)

A.6.57 IDRRXESCTYPE

Name	idrRxESCType
OID	1.3.6.1.4.1.6247.21.1.5.13
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).interfaceParameters(5).idrRxESCType(13)
Module	CDM600L
Parent	interfaceParameters
Prev sibling	idrTxESCType
Next sibling	txAudioVolume
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	data(0)
2	audio(1)
Description	IDR Rx ESC Type. (IDR Parameter) (RET?, RET=)

A.6.58 TXAUDIOVOLUME

Name	txAudioVolume
OID	1.3.6.1.4.1.6247.21.1.5.14
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).interfaceParameters(5).txAudioVolume(14)
Module	CDM600L
Parent	interfaceParameters
Prev sibling	idrRxESCType
Next sibling	rxAudioVolume
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_OCTETS
Base syntax	OCTET STRING
Composed syntax	OCTET STRING
Status	current
Max-access	read-write
Size list	
1	4
Description	Tx Audio Volume. (Audio/IDR Parameter) (TVL?, TVL=)

A.6.59 RXAUDIOVOLUME

Name	rxAudioVolume
OID	1.3.6.1.4.1.6247.21.1.5.15
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).interfaceParameters(5).rxAudioVolume(15)
Module	CDM600L
Parent	interfaceParameters
Prev sibling	txAudioVolume
Next sibling	dropAndInsert
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_OCTETS
Base syntax	OCTET STRING
Composed syntax	OCTET STRING
Status	current
Max-access	read-write
Size list	
1	4
Description	Rx Audio Volume. (Audio/IDR Parameter) (RVL?, RVL=)

A.6.60 DROPANDINSERT

Name	dropAndInsert
OID	1.3.6.1.4.1.6247.21.1.5.16
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).interfaceParameters(5).dropAndInsert(16)
Module	CDM600L
Parent	interfaceParameters
Prev sibling	rxAudioVolume
Next sibling	txTerrestrialAlarmMask
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_OCTETS
Base syntax	OCTET STRING
Composed syntax	OCTET STRING
Status	current
Max-access	read-write
Size list	
1	51
Description	
	Drop & Insert. (DNI?, DNI=) 51 Bytes.
	25 bytes of Drop information - 24 bytes defining Timeslot locations, followed by Drop type (0 = T1-D4, 1 = T1-ESF, 2 = E1-CCS, 3 = E1-CAS) as DTY 25 bytes of Insert information - 24 bytes defining Timeslot locations, followed by Insert type (0 = T1-D4, 1 = T1-ESF, 2 = E1-CCS, 3 = E1-CAS) as ITY Timeslot definition 0 = Unused 1-9 for timeslots 1-9 A=10, B=11, C=12, D=13...V=31. Last byte = Drop and Insert Internal Loop (0 = OFF, 1 = ON) If data rate equals 1920 kbps and DNI Type equals E1-CCS or E1-CAS then channels cannot be programmed. The DNI? Command will display all 'x'in the time-slot positions.

A.6.61 TXTERRESTRIALALARMMASK

Name	txTerrestrialAlarmMask
OID	1.3.6.1.4.1.6247.21.1.5.17
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).interfaceParameters(5).txTerrestrialAlarmMask(17)
Module	CDM600L
Parent	interfaceParameters
Prev sibling	dropAndInsert
Next sibling	rxTerrestrialAlarmEnable
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	alarmActive(0)
2	alarmMasked(1)
Description	Tx Terrestrial Alarm Mask. (TTA?, TTA=)
Note	Used for DROP operation only.

A.6.62 RXTERRESTRIALALARMENABLE

Name	rxTerrestrialAlarmEnable
OID	1.3.6.1.4.1.6247.21.1.5.18
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).interfaceParameters(5).rxTerrestrialAlarmEnable(18)
Module	CDM600L
Parent	interfaceParameters
Prev sibling	txTerrestrialAlarmMask
Next sibling	recenterBuffer
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	disable(0)
2	enable(1)
Description	Rx Terrestrial Alarm Enable. (RTE?, RTE=)
Note	Used for INSERT opertion only.

A.6.63 RECENTERBUFFER

Name	recenterBuffer
OID	1.3.6.1.4.1.6247.21.1.5.19
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).interfaceParameters(5).recenterBuffer(19)
Module	CDM600L
Parent	interfaceParameters
Prev sibling	rxTerrestrialAlarmEnable
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	yes(1)
Description	Recenter Buffer. Write-ONLY. (RCB=)

A.6.64 UTILITYPARAMETERS

Name	utilityParameters
OID	1.3.6.1.4.1.6247.21.1.6
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).utilityParameters(5)
Module	CDM600L
Parent	cdm600lObjects
Prev sibling	interfaceParameters
Next sibling	aupcParameters
Child	edmacFramingMode
Type	OBJECT-IDENTIFIER

A.6.65 EDMACFRAMINGMODE

Name	edmacFramingMode
OID	1.3.6.1.4.1.6247.21.1.6.1
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).utilityParameters(6).edmacFramingMode(1)
Module	CDM600L
Parent	utilityParameters
Next sibling	edmacAddress
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	idle(0)
2	master(1)
3	slave(2)
Description	EDMAC Framing Mode. (EFM?, EFM=)

A.6.66 EDMACADDRESS

Name	edmacAddress
OID	1.3.6.1.4.1.6247.21.1.6.2
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).utilityParameters(6).edmacAddress(2)
Module	CDM600L
Parent	utilityParameters
Prev sibling	edmacFramingMode
Next sibling	unitTestMode
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Size list	
1	0..9999
Description	Edmac Slave Address Range. (ESA?, ESA=) This command is only valid for an EDMAC master. When used as a Query, it may be sent to an EDMAC slave, which will respond with the appropriate address.

A.6.67 UNITTESTMODE

Name	unitTestMode
OID	1.3.6.1.4.1.6247.21.1.6.3
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).utilityParameters(6).unitTestMode(3)
Module	CDM600L
Parent	utilityParameters
Prev sibling	edmacAddress
Next sibling	unitAlarmMask
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	normal(0)
2	txCW(1)
3	txAlt10Pattern(2)
4	ifLoopBack(3)
5	rfLoopBack(4)
6	digitalLoopBack(5)
7	ioLoopBack(6)
Description	Unit Test Mode. (TST?, TST=)

A.6.68 UNITALARMMASK

Name	unitAlarmMask
OID	1.3.6.1.4.1.6247.21.1.6.4
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).utilityParameters(6).unitAlarmMask(4)
Module	CDM600L
Parent	utilityParameters
Prev sibling	unitTestMode
Next sibling	txBackwardAlarmEnable
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Size list	
1	0..111111
Description	Unit Alarm Mask. (MSK?, MSK=) MSK=123456, Bit 1 = Mask TX AIS Alarm. (0=Unmasked, 1=Masked) Bit 2 = Mask RX AIS Alarm. (0=Unmasked, 1=Masked) Bit 3 = Mask Bufferslip Alarm. (0=Unmasked, 1=Masked) Bit 4 = spare, always 1. Bit 5 = Mask RX AGC Alarm. (0=Unmasked, 1=Masked) Bit 6 = Mask Eb/No Alarm. (0=Unmasked, 1=Masked)

A.6.69 TXBACKWARDALARMENABLE

Name	txBackwardAlarmEnable
OID	1.3.6.1.4.1.6247.21.1.6.5
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).utilityParameters(6).txBackwardAlarmEnable(5)
Module	CDM600L
Parent	utilityParameters
Prev sibling	unitAlarmMask
Next sibling	rxBackwardAlarmEnable
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Size list	
1	0..2222
Description	Tx Backward Alarms Enable. (TBA?, TBA=)

A.6.70 RXBACKWARDALARMENABLE

Name	rxBackwardAlarmEnable
OID	1.3.6.1.4.1.6247.21.1.6.6
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).utilityParameters(6).rxBackwardAlarmEnable(6)
Module	CDM600L
Parent	utilityParameters
Prev sibling	txBackwardAlarmEnable
Next sibling	unitConfigStore
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Size list	
1	0..1111
Description	Rx Backward Alarms Enable. (RBA?, RBA=)

A.6.71 UNITCONFIGSTORE

Name	unitConfigStore
OID	1.3.6.1.4.1.6247.21.1.6.7
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).utilityParameters(6).unitConfigStore(7)
Module	CDM600L
Parent	utilityParameters
Prev sibling	rxBackwardAlarmEnable
Next sibling	unitConfigLoad
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Size list	
Description	Unit Config Store. Write-ONLY. (CST=)

A.6.72 UNITCONFIGLOAD

Name	unitConfigLoad
OID	1.3.6.1.4.1.6247.21.1.6.8
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).utilityParameters(6).unitConfigLoad(8)
Module	CDM600L
Parent	utilityParameters
Prev sibling	unitConfigStore
Next sibling	oduCommEnable
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Size list	
1	0..9
Description	Unit Config Load. Write-ONLY. (CLD=)

A.6.73 ODUCOMMENABLE

Name	oduCommEnable
OID	1.3.6.1.4.1.6247.21.1.6.9
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).utilityParameters(6).oduCommEnable(9)
Module	CDM600L
Parent	utilityParameters
Prev sibling	unitConfigLoad
Next sibling	lnbPower
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	disable(0)
2	enable(1)
Description	ODU Comm Enable. (ODU?, ODU=)

A.6.74 LNBPOWER

Name	lnbPower
OID	1.3.6.1.4.1.6247.21.1.6.10
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cdm600l(21).cdm600lObjects(1).utilityParameters(6).lnbPower(10)
Module	CDM600L
Parent	utilityParameters
Prev sibling	oduCommEnable
Next sibling	lnbVoltage
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	off(0)
2	on(1)
Description	LNB Power. (LNB?, LNB=)

A.6.75 LNBVOLTAGE

Name	lnbVoltage
OID	1.3.6.1.4.1.6247.21.1.6.11
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cdm600l(21).cdm600lObjects(1).utilityParameters(6).lnbVoltage(11)
Module	CDM600L
Parent	utilityParameters
Prev sibling	lnbPower
Next sibling	lnbRefEnable
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	v_13(0)
2	v_18(1)
3	v_24(2)
Description	LNB Voltage. (LNV?, LNV=)

A.6.76 LNBREFENABLE

Name	lnbRefEnable
OID	1.3.6.1.4.1.6247.21.1.6.12
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).utilityParameters(6).lnbRefEnable(12)
Module	CDM600L
Parent	utilityParameters
Prev sibling	lnbVoltage
Next sibling	lnbThresholdLow
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	off(0)
2	on(1)
Description	LNB 10MHz Reference Enable. (LNR?, LNR=)

A.6.77 LNBTHRESHOLDLOW

Name	lnbThresholdLow
OID	1.3.6.1.4.1.6247.21.1.6.13
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).utilityParameters(6).lnbThresholdLow(13)
Module	CDM600L
Parent	utilityParameters
Prev sibling	lnbRefEnable
Next sibling	lnbThresholdHigh
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Size list	
1	0..500
Units	mA
Description	LNB Threshold Low. (LNL?, LNL=)

A.6.78 LNBTHRESHOLDHIGH

Name	lnbThresholdHigh
OID	1.3.6.1.4.1.6247.21.1.6.14
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).utilityParameters(6).lnbThresholdHigh(14)
Module	CDM600L
Parent	utilityParameters
Prev sibling	lnbThresholdLow
Next sibling	rxLOFrequency
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Size list	
1	0..500
Units	mA
Description	LNB Threshold High. (LNH?, LNH=)

A.6.79 RXLOFREQUENCY

Name	rxLOFrequency
OID	1.3.6.1.4.1.6247.21.1.6.15
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).utilityParameters(6).rxLOFrequency(15)
Module	CDM600L
Parent	utilityParameters
Prev sibling	lnbThresholdHigh
Next sibling	oduPower
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_OCTETS
Base syntax	OCTET STRING
Composed syntax	OCTET STRING
Status	current
Max-access	read-write
Size list	
1	1..6
Description	LNB LO Frequency. (RLO?, RLO=)

A.6.80 oduPower

Name	oduPower
OID	1.3.6.1.4.1.6247.21.1.6.16
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).utilityParameters(6).oduPower(16)
Module	CDM600L
Parent	utilityParameters
Prev sibling	rxLOFrequency
Next sibling	oduRefEnable
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	off(0)
2	on(1)
Description	ODU Power. (ODP?, ODP=)

A.6.81 oduRefEnable

Name	oduRefEnable
OID	1.3.6.1.4.1.6247.21.1.6.17
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).utilityParameters(6).oduRefEnable(17)
Module	CDM600L
Parent	utilityParameters
Prev sibling	oduPower
Next sibling	oduThresholdLow
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	off(0)
2	on(1)
Description	ODU 10MHz Reference Enable. (ODR?, ODR=)

A.6.82 ODUTHRESHOLDLOW

Name	oduThresholdLow
OID	1.3.6.1.4.1.6247.21.1.6.18
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).utilityParameters(6).oduThresholdLow(18)
Module	CDM600L
Parent	utilityParameters
Prev sibling	oduRefEnable
Next sibling	oduThresholdHigh
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Size list	
1	0..4000
Units	mA
Description	ODU Power Monitor Low Current Limit. (ODL?, ODL=)

A.6.83 ODUTHRESHOLDHIGH

Name	oduThresholdHigh
OID	1.3.6.1.4.1.6247.21.1.6.19
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).utilityParameters(6).oduThresholdHigh(19)
Module	CDM600L
Parent	utilityParameters
Prev sibling	oduThresholdLow
Next sibling	oduOutputPower
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Size list	
1	0..4000
Units	mA
Description	ODU Power Monitor High Current Limit. (ODH?, ODH=)

A.6.84 ODUOUTPUTPOWER

Name	oduOutputPower
OID	1.3.6.1.4.1.6247.21.1.6.20
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).utilityParameters(6).oduOutputPower(20)
Module	CDM600L
Parent	utilityParameters
Prev sibling	oduThresholdHigh
Next sibling	oduPowerLeveling
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	off(0)
2	on(1)
Description	ODU Output Power Enable. (OOP?, OOP=)

A.6.85 ODUPOWERLEVELING

Name	oduPowerLeveling
OID	1.3.6.1.4.1.6247.21.1.6.21
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).utilityParameters(6).oduPowerLeveling(21)
Module	CDM600L
Parent	utilityParameters
Prev sibling	oduOutputPower
Next sibling	oduCarrierOutputDelay
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	off(0)
2	on(1)
Description	Outdoor Unit Power Leveling Enable. (OPL?, OPL=)

A.6.86 oduCarrierOutputDelay

Name	oduCarrierOutputDelay
OID	1.3.6.1.4.1.6247.21.1.6.22
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).utilityParameters(6).oduCarrierOutputDelay(22)
Module	CDM600L
Parent	utilityParameters
Prev sibling	oduPowerLeveling
Next sibling	txLOFrequency
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_OCTETS
Base syntax	OCTET STRING
Composed syntax	OCTET STRING
Status	current
Max-access	read-write
Size list	
1	5
Description	Outdoor Unit Carrier Output Delay. Format is MM:SS. (OOD?, OOD=)

A.6.87 txLOFrequency

Name	txLOFrequency
OID	1.3.6.1.4.1.6247.21.1.6.23
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).utilityParameters(6).txLOFrequency(23)
Module	CDM600L
Parent	utilityParameters
Prev sibling	oduCarrierOutputDelay
Next sibling	oduAddress
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_OCTETS
Base syntax	OCTET STRING
Composed syntax	OCTET STRING
Status	current
Max-access	read-write
Size list	
1	1..6
Description	BUC LO Frequency. (TLO?, TLO=)

A.6.88 ODUADDRESS

Name	oduAddress
OID	1.3.6.1.4.1.6247.21.1.6.24
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cdm600l(21).cdm600lObjects(1).utilityParameters(6).oduAddress(24)
Module	CDM600L
Parent	utilityParameters
Prev sibling	txLOFrequency
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Size list	
1	0..15
Description	Outdoor Unit Address. (OAD?, OAD=)

A.6.89 AUPCPARAMETERS

Name	aupcParameters
OID	1.3.6.1.4.1.6247.21.1.7
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cdm600l(21).cdm600lObjects(1).aupcParameters(7)
Module	CDM600L
Parent	cdm600lObjects
Prev sibling	utilityParameters
Next sibling	statusParameters
Child	aupcEnable
Type	OBJECT-IDENTIFIER
Composed syntax	

A.6.90 AUPCENABLE

Name	aupcEnable
OID	1.3.6.1.4.1.6247.21.1.7.1
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).aupcParameters(7).aupcEnable(1)
Module	CDM600L
Parent	aupcParameters
Next sibling	aupcControlParameters
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	disable(0)
2	enable(1)
Description	AUPC Enable. (AUP?, AUP=)

A.6.91 AUPCCONTROLPARAMETERS

Name	aupcControlParameters
OID	1.3.6.1.4.1.6247.21.1.7.2
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).aupcParameters(7).aupcControlParameters(2)
Module	CDM600L
Parent	aupcParameters
Prev sibling	aupcEnable
Next sibling	remoteEbno
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_OCTETS
Base syntax	OCTET STRING
Composed syntax	OCTET STRING
Status	current
Max-access	read-write
Size list	
1	6
Description	AUPC Control Parameters. (APP?, APP=)

A.6.92 REMOTEEBNO

Name	remoteEbno
OID	1.3.6.1.4.1.6247.21.1.7.3
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).aupcParameters(7).remoteEbno(3)
Module	CDM600L
Parent	aupcParameters
Prev sibling	aupcControlParameters
Next sibling	txPowerLevelIncrease
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-only
Size list	
1	-1
2	20..160
3	999
Description	Remote EB/N0. Value Multiplied by 10 if not -1. (REB?)

A.6.93 TXPOWERLEVELINCREASE

Name	txPowerLevelIncrease
OID	1.3.6.1.4.1.6247.21.1.7.4
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).aupcParameters(7).txPowerLevelIncrease(4)
Module	CDM600L
Parent	aupcParameters
Prev sibling	remoteEbno
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-only
Size list	
1	-1
2	0..90
Description	TX Power Level Increase. Value Multiplied by 10 if not -1. (PLI?)

A.6.94 STATUSPARAMETERS

Name	statusParameters
OID	1.3.6.1.4.1.6247.21.1.8
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cdm600l(21).cdm600lObjects(1).statusParameters(8)
Module	CDM600L
Parent	cdm600lObjects
Prev sibling	aupcParameters
Next sibling	logs
Child	rxEbno
Type	OBJECT-IDENTIFIER

A.6.95 RXEBNO

Name	rxEbno
OID	1.3.6.1.4.1.6247.21.1.8.1
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cdm600l(21).cdm600lObjects(1).statusParameters(8).rxEbno(1)
Module	CDM600L
Parent	statusParameters
Next sibling	rxSignalLevel
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-only
Size list	
1	0..160
2	999
Units	dB
Description	RX Eb/N0. Value Multiplied by 10. (EBN?)

A.6.96 RXSIGNALLEVEL

Name	rxSignalLevel
OID	1.3.6.1.4.1.6247.21.1.8.2
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).statusParameters(8).rxSignalLevel(2)
Module	CDM600L
Parent	statusParameters
Prev sibling	rxEbno
Next sibling	rxFrequencyOffset
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_OCTETS
Base syntax	OCTET STRING
Composed syntax	OCTET STRING
Status	current
Max-access	read-only
Size list	
1	5
Units	dBm
Description	Rx Signal Level. (RSL?)

A.6.97 RXFREQUENCYOFFSET

Name	rxFrequencyOffset
OID	1.3.6.1.4.1.6247.21.1.8.3
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).statusParameters(8).rxFrequencyOffset(3)
Module	CDM600L
Parent	statusParameters
Prev sibling	rxSignalLevel
Next sibling	bufferFillState
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-only
Size list	
1	-30..30
2	99999
Units	kHz
Description	RX Frequency Offset. Value Multiplied by 10 if not 99999. (RFO?)

A.6.98 BUFFERFILLSTATE

Name	bufferFillState
OID	1.3.6.1.4.1.6247.21.1.8.4
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).statusParameters(8).bufferFillState(4)
Module	CDM600L
Parent	statusParameters
Prev sibling	rxFrequencyOffset
Next sibling	rxBER
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-only
Size list	
1	0..99
Units	percentage
Description	Buffer Fill State. % Full. (BFS?)

A.6.99 RXBER

Name	rxBER
OID	1.3.6.1.4.1.6247.21.1.8.5
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).statusParameters(8).rxBER(5)
Module	CDM600L
Parent	statusParameters
Prev sibling	bufferFillState
Next sibling	redundancyState
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_GAUGE32
Base syntax	Unsigned32
Composed syntax	Unsigned32
Status	current
Max-access	read-only
Description	RX BER. Value Multiplied by 10E-10. (BER?)

A.6.100 REDUNDANCYSTATE

Name	redundancyState
OID	1.3.6.1.4.1.6247.21.1.8.6
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).statusParameters(8).redundancyState(6)
Module	CDM600L
Parent	statusParameters
Prev sibling	rxBER
Next sibling	unitFaults
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-only
Value list	
1	offline(0)
2	online(1)
Description	Redundancy State. (RED?)

A.6.101 UNITFAULTS

Name	unitFaults
OID	1.3.6.1.4.1.6247.21.1.8.7
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).statusParameters(8).unitFaults(7)
Module	CDM600L
Parent	statusParameters
Prev sibling	redundancyState
Next sibling	oduCurrent
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_OCTETS
Base syntax	OCTET STRING
Composed syntax	OCTET STRING
Status	current
Max-access	read-only

Description	Unit Faults. Where response is abcd. a = Unit faults 0 = No faults 1 = Power supply fault, +5 volts 2 = Power supply fault, +12 volts 3 = Power supply fault, -5 volts 4 = Power supply fault, +18 volts 5 = Power supply fault, -12 volts 6 = RAM load fail 7 = Tx synthesizer lock 8 = Rx synthesizer 9 = Power cal Checksum error A = FPGA main chain load fail B = Turbo FPGA load fail C = Modem card FPGA load D = MUX FPGA load E = Demux FPGA load
	b = Tx Traffic status 0 = Tx traffic OK 1 = No clock from terrestrial interface 2 = Tx FIFO slip 3 = AIS detected on incoming data 4 = AUPC upper limit reached 5 = Ref PLL 6 = BUC current 7 = BUC voltage 8 = BUC checksum 9 = BUC PLL A = BUC temperature
	c = Rx Traffic status 0 = Rx Traffic OK 1 = Demodulator unlocked 2 = AGC Alarm - signal out of range 3 = Demux 4 = Spare 5 = Buffer Slip 6 = AIS detected on incoming data 7 = Eb/No alarm 8 = Buffer Clock activity 9 = LNB current A = LNB voltage

	d = Open Network 0 = No Faults 1 = Loss of Tx frame 2 = BER Alarm 3 = Loss of Tx multiframe 4 = Tx signaling AIS 5 = Tx Remote alarm 6 = IBS satellite alarm 7 = IDR Rx BWA1 8 = IDR Rx BWA2 9 = IDR Rx BWA3 A = IDR Rx BWA4 B = IDR Tx BWA1 C = IDR Tx BWA2 D = IDR Tx BWA3 E = IDR Tx BWA4

A.6.102 ODUCURRENT

Name	oduCurrent
OID	1.3.6.1.4.1.6247.21.1.8.8
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).statusParameters(8).oduCurrent(8)
Module	CDM600L
Parent	statusParameters
Prev sibling	unitFaults
Next sibling	oduVoltage
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-only
Size list	
1	0..9999
Units	mA
Description	ODU Current. (ODC?)

A.6.103 ODUVOLTAGE

Name	oduVoltage
OID	1.3.6.1.4.1.6247.21.1.8.9
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).statusParameters(8).oduVoltage(9)
Module	CDM600L
Parent	statusParameters
Prev sibling	oduCurrent
Next sibling	oduPhaseLockLoop
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-only
Size list	
1	0..640
Units	volts
Description	ODU Voltage. Value multiplied by 10. (ODV?)

A.6.104 ODUPHASELOCKLOOP

Name	oduPhaseLockLoop
OID	1.3.6.1.4.1.6247.21.1.8.10
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).statusParameters(8).oduPhaseLockLoop(10)
Module	CDM600L
Parent	statusParameters
Prev sibling	oduVoltage
Next sibling	oduOutputPowerLevel
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-only
Value list	
1	locked(0)
2	unlocked(1)
Description	Outdoor Unit Phase Lock Loop. (OLL?)

A.6.105 ODUOUTPUTPOWERLEVEL

Name	oduOutputPowerLevel
OID	1.3.6.1.4.1.6247.21.1.8.11
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).statusParameters(8).oduOutputPowerLevel(11)
Module	CDM600L
Parent	statusParameters
Prev sibling	oduPhaseLockLoop
Next sibling	oduTemperature
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-only
Description	ODU Output Power Level. Value multiplied by 10. (OOL?)

A.6.106 ODUTEMPERATURE

Name	oduTemperature
OID	1.3.6.1.4.1.6247.21.1.8.12
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).statusParameters(8).oduTemperature(12)
Module	CDM600L
Parent	statusParameters
Prev sibling	oduOutputPowerLevel
Next sibling	oduSoftwareVersion
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-only
Description	Outdoor Unit Temperature. (ODT?)

A.6.107 oduSoftwareVersion

Name	oduSoftwareVersion
OID	1.3.6.1.4.1.6247.21.1.8.13
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).statusParameters(8).oduSoftwareVersion(13)
Module	CDM600L
Parent	statusParameters
Prev sibling	oduTemperature
Next sibling	oduPowerClass
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-only
Size list	
1	0..15
Description	Outdoor Unit Software Version. (OSV?)

A.6.108 oduPowerClass

Name	oduPowerClass
OID	1.3.6.1.4.1.6247.21.1.8.14
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).statusParameters(8).oduPowerClass(14)
Module	CDM600L
Parent	statusParameters
Prev sibling	oduSoftwareVersion
Next sibling	oduTargetPower
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-only
Size list	
1	2..60
Units	watts
Description	Outdoor Unit Power Class. (OPC?)

A.6.109 ODUTARGETPOWER

Name	oduTargetPower
OID	1.3.6.1.4.1.6247.21.1.8.15
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).statusParameters(8).oduTargetPower(15)
Module	CDM600L
Parent	statusParameters
Prev sibling	oduPowerClass
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-only
Size list	
1	0..400
Units	dBm
Description	Outdoor Unit Target Power. Value multiplied by 10. (OTP?)

A.6.110 LOGS

Name	logs
OID	1.3.6.1.4.1.6247.21.1.9
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).logs(9)
Module	CDM600L
Parent	cdm600lObjects
Prev sibling	statusParameters
Next sibling	trapNotifications
Child	clearEventsLog
Type	OBJECT-IDENTIFIER

A.6.111 CLEAREVENTSLOG

Name	clearEventsLog
OID	1.3.6.1.4.1.6247.21.1.9.1
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).logs(9).clearEventsLog(1)
Module	CDM600L
Parent	logs
Next sibling	numberUnreadEvents
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	yes(1)
Description	Clear Events Log. Write-ONLY. (CAE=)

A.6.112 NUMBERUNREADEVENTS

Name	numberUnreadEvents
OID	1.3.6.1.4.1.6247.21.1.9.2
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).logs(9).numberUnreadEvents(2)
Module	CDM600L
Parent	logs
Prev sibling	clearEventsLog
Next sibling	retrieveNext5Events
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-only
Size list	
1	0..999
Description	Number of Unread Events. (NUE?)

A.6.113 RETRIEVENEXT5EVENTS

Name	retrieveNext5Events
OID	1.3.6.1.4.1.6247.21.1.9.3
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cdm600l(21).cdm600lObjects(1).logs(9).retrieveNext5Events(3)
Module	CDM600L
Parent	logs
Prev sibling	numberUnreadEvents
Next sibling	setStatisticInterval
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_OCTETS
Base syntax	OCTET STRING
Composed syntax	OCTET STRING
Status	current
Max-access	read-only
Description	Retrieve Next 5 Events. (RNE?)

A.6.114 SETSTATISTICINTERVAL

Name	setStatisticInterval
OID	1.3.6.1.4.1.6247.21.1.9.4
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cdm600l(21).cdm600lObjects(1).logs(9).setStatisticInterval(4)
Module	CDM600L
Parent	logs
Prev sibling	retrieveNext5Events
Next sibling	clearStatisticsLog
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	none(0)
2	mins10(1)
3	mins20(2)
4	mins30(3)
5	mins40(4)
6	mins50(5)
7	mins60(6)
8	mins70(7)
9	mins80(8)
10	mins90(9)
Description	Set Statistics Interval. (SSI?, SSI=)

A.6.115 CLEARSTATISTICSLOG

Name	clearStatisticsLog
OID	1.3.6.1.4.1.6247.21.1.9.5
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cdm600l(21).cdm600lObjects(1).logs(9).clearStatisticsLog(5)
Module	CDM600L
Parent	logs
Prev sibling	setStatisticInterval
Next sibling	numberUnreadStatistics
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-write
Value list	
1	yes(1)
Description	Clear Statistics Log. Write-ONLY. (CAS=)

A.6.116 NUMBERUNREADSTATISTICS

Name	numberUnreadStatistics
OID	1.3.6.1.4.1.6247.21.1.9.6
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cdm600l(21).cdm600lObjects(1).logs(9).numberUnreadStatistics(6)
Module	CDM600L
Parent	logs
Prev sibling	clearStatisticsLog
Next sibling	retrieveNext5Statistics
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_INT
Base syntax	INTEGER
Composed syntax	INTEGER
Status	current
Max-access	read-only
Size list	
1	0..999
Description	Number of Unread Statistics. (NUS?)

A.6.117 RETRIEVENEXT5STATISTICS

Name	retrieveNext5Statistics
OID	1.3.6.1.4.1.6247.21.1.9.7
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cdm600l(21).cdm600lObjects(1).logs(9).retrieveNext5Statistics(7)
Module	CDM600L
Parent	logs
Prev sibling	numberUnreadStatistics
Type	OBJECT-TYPE
Numerical syntax	SNMP_SYNTAX_OCTETS
Base syntax	OCTET STRING
Composed syntax	OCTET STRING
Status	current
Max-access	read-only
Description	Retrieve Next 5 Statistics. (RNS?)

A.6.118 TRAPNOTIFICATIONS

Name	trapNotifications
OID	1.3.6.1.4.1.6247.21.1.10
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cdm600l(21).cdm600lObjects(1).trapNotifications(10)
Module	CDM600L
Parent	cdm600lObjects
Prev sibling	logs
Child	trapNotificationsPrefix
Type	OBJECT-IDENTIFIER

A.6.119 TRAPNOTIFICATIONSPREFIX

Name	trapNotificationsPrefix
OID	1.3.6.1.4.1.6247.21.1.10.0
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247) .cdm600l(21).cdm600lObjects(1).trapNotifications(10).trapNotifications Prefix(0)
Module	CDM600L
Parent	trapNotifications
Child	unitFaultTraps
Type	OBJECT-IDENTIFIER

A.6.120 UNITFAULTTRAPS

Name	UnitFaultTraps
OID	1.3.6.1.4.1.6247.21.1.10.0.1
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).trapNotifications(10).trapNotificationsPrefix(0).unitFaultTraps(1)
Module	CDM600L
Parent	trapNotificationsPrefix
Type	NOTIFICATION-TYPE
Status	current
Objects	
1	unitFaults
Description	Unit Fault Trap Using unitFaults. Whare abcd.
	a = Unit faults 0 = No faults 1 = Power supply fault, +5 volts 2 = Power supply fault, +12 volts 3 = Power supply fault, -5 volts 4 = Power supply fault, +18 volts 5 = Power supply fault, -12 volts 6 = RAM load fail 7 = Tx synthesizer lock 8 = Rx synthesizer 9 = Power cal Checksum error A = FPGA main chain load fail B = Turbo FPGA load fail C = Modem card FPGA load D = MUX FPGA load E = Demux FPGA load
	b = Tx Traffic status 0 = Tx traffic OK 1 = No clock from terrestrial interface 2 = Tx FIFO slip 3 = AIS detected on incoming data 4 = AUPC upper limit reached 5 = Ref PLL 6 = BUC current 7 = BUC voltage 8 = BUC checksum 9 = BUC PLL A = BUC temperature

	c = Rx Traffic status 0 = Rx Traffic OK 1 = Demodulator unlocked 2 = AGC Alarm - signal out of range 3 = Demux 4 = Spare 5 = Buffer Slip 6 = AIS detected on incoming data 7 = Eb/No alarm 8 = Buffer Clock activity 9 = LNB current A = LNB voltage
	d = Open Network 0 = No Faults 1 = Loss of Tx frame 2 = BER Alarm 3 = Loss of Tx multiframe 4 = Tx signaling AIS 5 = Tx Remote alarm 6 = IBS satellite alarm 7 = IDR Rx BWA1 8 = IDR Rx BWA2 9 = IDR Rx BWA3 A = IDR Rx BWA4 B = IDR Tx BWA1 C = IDR Tx BWA2 D = IDR Tx BWA3 E = IDR Tx BWA4

A.6.121 UNITCONFIGCHANGETRAP

Name	UnitConfigChangeTrap
OID	1.3.6.1.4.1.6247.21.1.10.0.2
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).trapNotifications(10).trapNotificationsPrefix(0).unitConfigChangeTrap(2)
Module	CDM600L
Parent	TrapNotificationsPrefix
Type	NOTIFICATION-TYPE
Status	Current
Objects	
1	UnitFaults
Description	Trap is generated when a modem parameter command is submitted since the last poll.

A.6.122 UNITCOMMFAULTTRAP

Name	UnitCommFaultTrap
OID	1.3.6.1.4.1.6247.21.1.10.0.3
Full path	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).comtech(6247).cdm600l(21).cdm600lObjects(1).trapNotifications(10).trapNotificationsPrefix(0).unitCommFaultTrap(3)
Module	CDM600L
Parent	TrapNotificationsPrefix
Type	NOTIFICATION-TYPE
Status	Current
Objects	
1	UnitFaults
Description	Trap is generated when a communication error occurs between the CIM25 and the modem (local or distant).

NOTES

Index

T

U

V

W

METRIC CONVERSIONS

Units of Length

Unit	Centimeter	Inch	Foot	Yard	Mile	Meter	Kilometer	Millimeter
1 centimeter	—	0.3937	0.03281	0.01094	6.214×10^{-6}	0.01	—	—
1 inch	2.540	—	0.08333	0.2778	1.578×10^{-5}	0.254	—	25.4
1 foot	30.480	12.0	—	0.3333	1.893×10^{-4}	0.3048	—	—
1 yard	91.44	36.0	3.0	—	5.679×10^{-4}	0.9144	—	—
1 meter	100.0	39.37	3.281	1.094	6.214×10^{-4}	—	—	—
1 mile	1.609×10^{5}	6.336×10^{4}	5.280×10^{3}	1.760×10^{3}	—	1.609×10^{3}	1.609	—
1 mm	—	0.03937	—	—	—	—	—	—
1 kilometer	—	—	—	—	0.621	—	—	—

Temperature Conversions

Unit	° Fahrenheit	° Centigrade
32° Fahrenheit	—	0 (water freezes)
212° Fahrenheit	—	100 (water boils)
-459.6° Fahrenheit	—	273.1 (absolute 0)

Formulas
C = (F - 32) * 0.555
F = (C * 1.8) + 32

Units of Weight

Unit	Gram	Ounce Avoirdupois	Ounce Troy	Pound Avoir.	Pound Troy	Kilogram
1 gram	—	0.03527	0.03215	0.002205	0.002679	0.001
1 oz. avoir.	28.35	—	0.9115	0.0625	0.07595	0.02835
1 oz. troy	31.10	1.097	—	0.06857	0.08333	0.03110
1 lb. avoir.	453.6	16.0	14.58	—	1.215	0.4536
1 lb. Troy	373.2	13.17	12.0	0.8229	—	0.3732
1 kilogram	1.0×10^{3}	35.27	32.15	2.205	2.679	—

2114 WEST 7TH STREET TEMPE ARIZONA 85281 USA
480 • 333 • 2200 PHONE
480 • 333 • 2161 FAX