Preface

The Managed Media Converter Chassis System supports the Media Converter Chassis to monitor the each Media Converter (CO) or Chassis Manager status and to configure advanced function of the Managed Converter Chassis. Through Out-band management via Web Browser utility to monitor/configure the Managed Media Converter Chassis System.

This manual describes how to configure all Media Converter (CO), Chassis Manager and each Managed Converter Chassis, which features eight slots of Meida Converters (CO or Chassis Manager) in one Managed Converter Chassis, as well as the Remote side / Terminal Media Converter (CPE).

The system allow to have 4 Managed Converter Chassis on one Managed System by using IN/OUT Port for stacking, all you require to do is simply slide in one Chassis Manager to any of Managed Converter Chassis in order to manage the system..

To get the most out of this manual, you should have an understanding of networking concepts such as bridging, IEEE 802.3 10Base-T Ethemet, IEEE802.3u 100Base-TX/FX Fast Ethemet and local area networks (LANs).

For more information about these topics, please refer to the Appendix.

Table of Contents

Preface	1
Table of Contents	2
Chapter Overview	3
Technical Specifications	3
System Configuration	3
Application and Connector Pinouts	3
Technical Specification	4
Chassis Manager	4
Media Converter (MC) as CO side	6
Media Converter (Terminal) as CPE side	8
8 Slot Managed Converter Chassis	9
System Configuration	11
Connecting to Power	11
Chassis Stacking	11
Web-Based Browser Interface	12
Logging on to The Managed Media Converter Chassis Syste	em12
Main Menu	12
1. System Change	13
2. IP Configuration	14
3. Chassis	14
4. Monitor	22
5. SNMP Configuration	26
6. Alam	27
7. Save	29
8. Default	31
9. Update Firmware	32
Appendix A - Connector Pinouts	33

Chapter Overview

Technical Specifications

This chapter contains the following models:

- 1. Chassis Manager
- 2. Media Converter (MC) as CO side
- 3. Media Converter (Terminal) as CPE side
- 4.8 Slot Managed Converter Chassis

System Configuration

This chapter provides network managers and system administrators with information about how to configure the Managed Media Converter Chassis System via the Web Browser.

The reader of this document should be knowledgeable about network devices, device configuration, network management, and Internet browers. The user is assumed to be network administrator or manager with an understanding of network operations.

Application and Connector Pinouts

See Appendix A for more information.

Technical Specification

Chassis Manager

Key Features

- One-channel media conversion between 10/100Base-TX and 100Base-FX.
- Support AUTO-Negotiation and AUTO-MDIX for 10/100Base-TX Port.
- Fiber media allows:

Multi-mode fiber using SC, ST, VF-45, MT-RJ, or LC connector

Single-mode fiber using SC or ST connector

WDM single-fiber (bi-direction) transceiver: Single-mode WDM fiber Using SC connector.

A type: WDM single-fiber (bi-direction) transceiver transmits with 1310nm wavelength and receives with 1550nm wavelength. B type: WDM single-fiber (bi-direction) transceiver transmits with 1550nm wavelength and receives with 1310nm wavelength.

- Built-in 128K bits RAM for data buffer.
- Built-in CPU with 2M Bytes Flash & 8M Bytes SDRAM
- Status LEDs.
- Used with a Managed Chassis.
- Hot-swappable when used with a managed chassis.
- System Change Device Name, New Password, Old Password, Version, MAC address
- IP Configuration DHCP, IP address, Netmask, Default Gateway
- Chassis Hardware Monitor Temperature, Supply Voltage Value, Fan Status, Active MC, Uptime
- CO MC Status Operation Status, Link Status, Receive Count, Drop Count, Collision Count
- CO MC Control Forwarding Mode, Remote Control, Link Fault Pass Through, Port Mode, Flow Control, MDIX, Output Rate, Input Rate, Informing Way for Receiving Off

- CPE MC Auto Report
- CPE MC Status Status of power, Status of receiving optical power, Terminal link status, MC status, Informing way for optical receiving power off, Status of loopback test, Notification of link status for the terminal, Terminal link speed, Duplex for the terminal, Capability of auto-negotiation for the terminal, Number of interface in Terminal
- CPE MC Control Forwarding Mode, Remote Control, Link Fault Pass Through, Port Mode, Flow Control, MDIX, Output Rate, Input Rate, Informing Way for Receiving Off
- Loopback Test
- MC Hardware Monitor Temperature, Supply Voltage
- SNMP Configuration System Contact, System Location, Get Community, Set Community
- Alarm Alarm Configuration, Hardware Alarm Configuration, Alarm Mail-Trap, Alarm SNMP-Trap
- TFTP Client for Software Upgrade
- Telnet, SNMP V1 & V2, Web Browser, and TFTP Management
- Enterprise MIB
- Used as with a Managed Chassis.
- Hot-swappable in any Slot when used with a managed chassis.
- Able to Manage up to 32 CPE Converters.

Technical Specification

- LED: Per Unit PW/FA (Power, Failure Alarm)
- Per Port Console: Activity (Left LED), Full-duplex/Collision (Right LED)

10/100TX: LK/AT (Link/Activity), FD/CL (Full-duplex/Collision)

100FX: LK/AT (Link/Activity)

Ethernet Standards: IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, 100Base-FX

Cable: 10Base-T2-pair UTP Cat. 3, 4, 5, up to 100m (328ft)

100Base-TX 2-pair UTP Cat. 5, up to 100m (328ft)

100Base-FX 50 or 62.5/125um Multi-mode fiber optic cable

9 or 10/125um Single-mode fiber optic cable

Switching Method: Store-and -Forward

Forwarding Rate: 14,880pps for 10Mbps; 148,810pps for 100Mbps

Power Consumption: 4.2W Max.

Physical Specification

- Power: 0.35A @ 12VDC Power Supply
- Operating Temperature:0 ~45 (32 ~113)
- Storage Temperature: -10 ~70 (14 ~158)
- Humidity: 5 ~ 95%, non-condensing
- Emission & Compliance: CE Mark Class A, FCC Part 15 Class A

Dimensions:80mm (W) x 124mm (D) x 20mm (H)

(3.15" (W) x 4.88" (D) x 0.79" (H))

Net Weight: 160g (0.35lb.)

Media Converter (MC) as CO side

Key Features

- One-channel media conversion between 10/100Base-TX and 100Base-FX.
- Support AUTO-Negotiation and AUTO-MDIX for 10/100Base-TX Port.
- Fiber media allows:

Multi-mode fiber using SC, ST, VF-45, MT-RJ, or LC connector

Single-mode fiber using SC or ST connector

WDM single-fiber (bi-direction) transceiver: Single-mode WDM fiber Using SC connector.

• Built in 128K bits RAM for data buffer.

- Status LEDs.
- Used with a Managed Chassis.
- Hot-swappable when used with a managed chassis.

Technical Specification

- LED: Per Unit PW/FA (Power, Failure Alarm)
- Per Port 10/100TX: LK/AT (Link/Activity), FD/CL (Full-duplex/Collision)

100FX: LK/AT (Link/Activity)

- Ethernet Standards: IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, 100Base-FX
- Cable: 10Base-T2-pair UTP Cat. 3, 4, 5, up to 100m (328ft)
- 100Base-TX 2-pair UTP Cat. 5, up to 100m (328ft)
- 100Base-FX 50 or 62.5/125um Multi-mode fiber optic cable
- 9 or 10/125um Single-mode fiber optic cable
- Switching Method: Store-and -Forward
- Forwarding Rate: 14,880pps for 10Mbps; 148,810pps for 100Mbps
- Power Consumption: 3W Max.

Physical Specification

- Power: 0.25A @ 12VDC Power Supply
- Operating Temperature:0 ~45 (32 ~113)
- Storage Temperature: -10 ~70 (14 ~158)
- Humidity: 5 ~ 95%, non-condensing
- Emission & Compliance: CE Mark Class A, FCC Part 15 Class A
- Dimensions:80mm (W) x 124mm (D) x 20mm (H)

(3.15" (W) x 4.88" (D) x 0.79" (H))

Net Weight: 160g (0.35lb.)

Media Converter (Terminal) as CPE side

Key Features

- One-channel media conversion between 10/100Base-TX and 100Base-FX.
- Support AUTO-Negotiation and AUTO-MDIX for 10/100Base-TX Port.
- Fiber media allows:

Multi-mode fiber using SC, ST, VF-45, MT-RJ, or LC connector

Single-mode fiber using SC or ST connector

WDM single-fiber (bi-direction) transceiver: Single-mode WDM fiber Using SC connector.

- Built in 128K bits RAM for data buffer.
- Status LEDs.
- Wall-mountable.
- External Power Adapter (0.25A @ 12VDC)

Technical Specification

- LED: Per Unit PW/FA (Power, Failure Alarm)
- Per Port 10/100TX: LK/AT (Link/Activity), FD/CL (Full-duplex/Collision)

100FX: LK/AT (Link/Activity)

Ethernet Standards: IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, 100Base-FX

Cable: 10Base-T2-pair UTP Cat. 3, 4, 5, up to 100m (328ft)

100Base-TX 2-pair UTP Cat. 5, up to 100m (328ft)

100Base-FX 50 or 62.5/125um Multi-mode fiber optic cable

9 or 10/125um Single-mode fiber optic cable

- Switching Method: Store-and -Forward
- Forwarding Rate: 14,880pps for 10Mbps; 148,810pps for 100Mbps

Power Consumption: 3W Max.

Managed Media Converter Chassis System

Physical Specification

- Power: 0.25A @ 12VDC Power Supply
- Operating Temperature:0 ~45 (32 ~113)
- Storage Temperature: -10 ~70 (14 ~158)
- Humidity: 5 ~ 95%, non-condensing
- Emission & Compliance: CE Mark Class A, FCC Part 15 Class A
- Dimensions:80mm (W) x 124mm (D) x 20mm (H)
 - (3.15" (W) x 4.88" (D) x 0.79" (H))
- Net Weight: 160g (0.35lb.)

8 Slot Managed Converter Chassis

Key Features

- Each Chassis Houses 8 Slots (Converters)
- Slim 1U Height 19" Design to Save Space
- Stackable up to Four Chassis (up to 32 Converters)
- Hot Swappable
- Supports Power Redundancy

Technical Specifications

LED: PWR1 - For AC Power status

PWR2-For DC Power status

- Fan 1 / Fan 2 For Fan status.
- STK IN / STK OUT For stack port status
- Stacking Port: RJ-45
- Stacking Cable: Cat 5 with Max Length of 1 Meter

Terminal Block: For Redundant Power (2.67A @ 12VDC)

Environmental Specifications

Power: AC Input: 100-240V

DC Input: 2.67A @ 12VDC

Operating Temperature:0 ~45 (32 ~113)

Storage Temperature: -10 ~70 (14 ~158)

Humidity: 5 ~ 95%, non-condensing

Emission & Compliance: CE Mark Class A, FCC Part 15 Class A

Dimensions:440mm (W) x 235mm (D) x 44mm (H)

(17.32" (W) x 9.25" (D) x 1.73" (H))

Net Weight: 3Kg (6.6lbs.)

System Configuration

Connecting to Power

The chassis system is equipped with two power connectors. When the chassis is connecting with two powers, you can have the redundant function.

AC power connector DC power connector

AC 100V ~ 240V 2.67A @ 12VDC



Chassis Stacking

The Stacking function allows up to four chassis to be interconnected via their Stacking ports. This forms a four chassis stack that can then be managed and configured as thought the entire stack were a single chassis manager. The chassis stack is then accessed through a single IP address.

The stacking ports are marked **IN** and **OUT**. The RJ45 compliant cable must be connected from an **IN** port on one Switch to an **OUT** port on the next Switch in the stack. The last two Switches (at the top and bottom of the stack) must also be connected from the **IN** port on one Switch to the **OUT** port on the other Switch. In this way, a loop is made such that all of the Switches in the Switch stack have the **IN** stacking port connected to another Switch's **OUT** stacking port.

< NOTE > : chassis number is configured using the front panel switch.



11 User Manual

Web-Based Browser Interface

The Managed Media Converter Chassis System is accessible using a Web browser (IE explorer, Netscape Communication, etc.) to open up the Managed Converter Chassis monitering System.

Logging on to The Managed Media Converter Chassis System

The default IP Address for the System is '192.168.1.10', and there is no need to type in both 'Login name ' and ' password ' as default, just simply press ' OK ' to start the Main Screen.



Main Menu



1. System Change

There are five items in the System Change menu : ' Device Name ', ' New Password ', ' Old Password ', ' Version ' and ' Mac Address '.

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1.1. Device Name :

This section is to set your own 'Device Name'.

1.2. New Password :

This section is to set your own 'New Password'.

1.3. Old Password :

This section is to verify the old password you set before.

1.4. Version:

This is an indication of the Software version for reference.

1.5. Mac Address :

This is the information of Mac Address of your Device.

< NOTE >: After configuring the Device, need to press the 'Apply ' botton to save the setting.

2. IP Configuration

There are 4 items in the IP Configuration : 'DHCP', 'IP Address', 'Netmask 'and 'Default Gateway'.

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2.1. DHCP:

To set the DHCP ' Enable ' or ' Disable '.

2.2. IP Address :

To allocate an IP Address for the Managed Converter Chassis, the default IP is '192.168.1.10'.

2.3. Netmask:

To set the Netmask, the default is '255.255.255.0'.

2.4. Default Gateway:

To set the default Gateway address is '192.168.1.254 '.

< NOTE > : After configuration set, need to press the 'Apply' button to save the setting.

3. Chassis

3.1. Chassis Hardware Monitor

This section divide to 4 different Managed Converter Chassis with No. on each Chassis unit.

Chassis => Chassis # 0~3 => Chassis HW Monitor

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This section you can see the Chassis # 0~3 Hardware Monitor :

Temperature.

Supply Voltage Value (12 Volts): Suggest the normal condition 12 Volts (+/- 10%).

Fan Status : There are 2 Fans in Chassis (Status : 'On 'or 'Off ').

Active MC : There are 8 slots for Media Converter or Chassis Manager (Status : 'Active ' or ' Inactive ').

Uptime.

< NOTE >: This menu can also be read simply point the Left hand side of ' Managed Converter Chassis ' on the top graphic of Chassis # 0~3 where the ' Chassis Hardware Switch ' is.

3.2. CO MC Status

This section you can see the Media Converter #1~8 inside of Chassis #0~3

Chassis => Chassis # 0~3 => MC # 1~8 => CO MC Status

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Operation Status: 'Normal 'or 'Local loop test 'or 'Far end fault 'or 'Hardware fault 'or 'Software fault'.

Media Port 1 (Type : Current Model): 'Link Status', 'Receive Count', 'Drop Count', and 'Collision Count'.

Media Port2 (Type : Current Model): 'Link Status', 'Receive Count', 'Drop Count', and 'Collision Count'.

< NOTE >: If the Status needs to be calculated from fresh, please press the 'Reset ' botton to restart the counting.

< NOTE >: This menu can also be read simply point the Left hand side of ' Managed Converter Chassis ' on the top graphic of Chassis # 0 where the ' Chassis Hardware Switch is.

3.3. CO MC Control

Chassis => Chassis # 0~3 => MC # 1~8 => CO MC Control

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MC Options :

Forwarding Mode: 'Store-Forward 'or 'Cut-Through 'or 'Repeater 'or 'Auto-Change'.

Remote Control: 'Disable 'or 'Enable'.

Link Fault Pass Through : 'Disable ' or ' Enable '.

Media Port1 (Type: Current Model):

Port Mode: 'Auto 'or '10HD 'or '10FD 'or '100HD 'or '100FD'.

Flow Control : 'Disable ' or ' Enable '.

MDIX: 'Disable 'or 'Enable'.

Output Rate: 'Full 'or '25% 'or '50% 'or '75% '.

Input Rate : 'Full ' or ' 25% ' or ' 50% ' or ' 75% '.

Media Port2 (Type : Current Model):

Port Mode : '100HD ' or '100FD '.

Flow Control : 'Disable ' or ' Enable '.

Informing Way for Receiving Off: 'Maintenance Frame 'or 'Far-End-Fault Pattern'.

< NOTE >: After configuration set, need to press the 'Apply ' and ' Save ' buttons to save the setting.

3.4. CPE MC AutoReport

Chassis => Chassis # 0~3 => MC # 1~8 => CPE MC AutoReport

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Status of Loopback test : 'Not Test ' or ' Test '.

Option B: 'Support 'or 'Not Support'.

< Note >: If the Option B is support by Terminal side, which can inform speed, duplex, and auto-negotiation in terminal, our default setting is 'Support'.

TP port auto-negotiation : 'Enable ' or ' Disable '.

TP port speed selection : '100M ' or '10M '.

TP port duplex mode selection : 'Full ' or ' Half'.

TP port flow control selection : 'Enable ' or ' Disable '.

TP port link : 'Link Up 'or 'Link Down '.

Fiber port flow control/backpressure : ' Enable ' or ' Disable '.

Fiber port duplex mode : 'Full 'or 'Half'.

Fiber port signal detect : 'On 'or 'Off'.

MC power status : 'Normal ' or ' Fault '.

MC status : 'Normal 'or 'Fault'.

Informing way for optical receiving power off: 'Far-End-Fault Pattern ' or ' Maintenance Frame'.

MC support multi-port UTP : '1 ' or ' More Than 1 '.

Link Fault Pass Through : 'Disable ' or ' Enable '.

3.5. CPE MC Status

Chassis => Chassis # 0~3 => MC # 1~8 => CPE MC Status

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Status of power: "Power On ' or ' Power Off'.

Status of receiving optical power : 'Normal ' or ' Fault '.

Terminal link status : 'Link Up ' or 'Link Down '.

MC status : 'Normal ' or ' Fault '.

Informing way for optical receiving power off: 'Far-End-Fault Pattern 'or 'Maintenance Frame'.

Status of loopback test : 'Normal ' or ' Fault '.

Notification of link status for the terminal : 'Support ' or ' Not Support '.

Terminal link speed : '100M ' or '10M '.

Duplex for the terminal : 'Full ' or ' Half '.

Capability of auto-negotiation for the terminal : ' Enable ' or ' Disable '.

Number of interface in terminal : '1 ' or ' More Than 1 '.

< NOTE > : If you wish to get the most recent remote status, please press the 'Apply' button for the status.

3.6. CPE MC Control

Chassis => Chassis # 0~3 => MC # 1~8 => CPE MC Control

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MC Options :

Forwarding Mode: 'Store-Forward 'or 'Cut-Through 'or 'Repeater 'or 'Auto-Change'.

Remote Control : ' Disable ' or ' Enable '.

Link Fault Pass Through : 'Disable ' or ' Enable '.

Media Port 1 (Type : Current Model):

Port Mode: 'Auto 'or '10HD 'or '10FD 'or '100HD 'or '100FD'.

Flow Control : 'Disable ' or ' Enable '.

MDIX: 'Disable 'or 'Enable'.

Output Rate : 'Full ' or ' 25% ' or ' 50% ' or ' 75% '.

Input Rate : 'Full 'or '25% 'or '50% 'or '75% '.

Media Port2 (Type: Current Model):

Port Mode : '100HD ' or '100FD '.

Flow Control : 'Disable ' or ' Enable '.

Informing Way for Receiving Off: 'Far-End-Fault Patten' or 'Maintenance Frame'.

< NOTE > : After configuration set, need to press the 'Apply ' button to save the setting.

3.7. Loop-back Test

Chassis => Chassis # 0~3 => MC # 1~8 => Loop-back Test

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Status: 'Final 'or 'Error'.

Result: 'OK 'or Message for error.

< NOTE > : If you wish to retest for Loopback Test again, please press the 'Apply ' botton for the most update status.

3.8. MC Hardware Monitor

Chassis => Chassis # 0~3 => MC # 1~8 => MC H/W Monitor

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an transfer			

Temperature: +45 C

Supply Voltage (2.5 Volts)

Supply Voltage (3.3 Volts)

Supply voltage (12 Volts)

< NOTE > : Under the normal condition, suggest the tolerance for all Supply Voltage should not exceed +/- 10%.

4. Monitor

- 4.1. Total CO MC Status
- Monitor => Chassis # 0 ~3 => Total CO MC Status

This section divide to 3 different Managed Converter Chassis with No. on each Chassis unit.

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This section you can see the MC Status for all Media Converter installed in the Chassis .

4.2. Total CPE MC AutoReport

Monitor => Chassis # 0~3 => Total CPE MC AutoReport

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This section you can see the Terminal MC Auto Report for all Media Converter installed in the Chassis.

4.3. Total CPE MC Status

Monitor => Chassis # 0~3 => Total CPE MC Status

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This section you can see the Terminal MC Status for all Media Converter installed in the Chassis .

4.4. Total Loopback Test

Monitor => Chassis # 0~3=> Total Loopback Test

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This section you can see the Loopback Test Status for all Media Converter installed in the Chassis .

4.5. Total MC Hardware Status

Monitor => Chassis # 0~3=> Total MC Hardware Status

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This section you can see the MC Hardware Status for all Media Converter installed in the

Chassis.

4.6. Chassis Monitor

This section you can monitor all the 0~3 Managed Converter Chassis status.

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5. SNMP Configuration

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System Contact : Contact information for the system administrator responsible for managing system.

System Location : Description of where your system is physically located.

Get Community : public / private

Set Community : public / private

6. Alarm

6.1. Alarm Configuration

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Allows a network administrator to define alarm events.

6.2. HW Alarm Configuration

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Low Power Limit (%): 0 ~ 100 %

High Temperature Limit (C) : Suggest set on 45

Fan Operation Time Limit (Hours): 1000 Hours or more

6.3. Alarm Mail - Trap

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If you check the «enable » Alarm by SMTP, system will send alarm information to the configured email address through the configured mail server.

6.4. Alarm SNMP - Trap

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SNMP enables network administrators to manage network performance, find and solve network problems. When SNMP-Trap events are « ON », the device can send out trap messages automatically to the trap manager if configured.

7. Save

7.1. Configuration of Chassis Manager

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If press OK for the 'Are you sure? ' column, all changed configuration for Chassis Manager will be saved. And Cancel will be no save.

7.2. Configuration of all MC

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If press the save for configuration of all MC, all previous changes of configuration will be starting to save until it shows ' Done '.

< NOTE > : Note the N/A indicate ' Not Applicable '.

8. Default

8.1. Configuration of Chassis Manager

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If press OK for the 'Are you sure?' column, all configuration for Chassis Manager will be reset to factory default. And all configuration for Chassis Manager will not be reset to factory default if Cancel will be pressed.

8.2. Configuration of all MC

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If press the default for configuration of all MC, all configuration will be reset to factory default until it shows 'Done '.

< NOTE > : Note the N/A indicate ' Not Applicable '.

9. Update Firmware

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You can update the firmware of your system. Normally, this is done when a new version of firmware is released.

Appendix A - Connector Pinouts



The following table lists the pinout of the Ethemet Switch's 10/100Base-TX ports.

For 10/100Base	Pin 1/3	Trans/Receive	Data +
For 10/100Base	Pin2/6	Trans/Receive	Data -

100BASE-FX: 100Mbp Ethemet implementation over fiber.

100BASE-TX: 100Mbps Ethernet implementation over Category 5 and Type 1 Twisted Pair cabling.

10BASE-T: The IEEE 802.3 specification for Ethernet over Unshielded Twisted Pair (UTP) cabling.

auto-negotiation: A feature on a port that allows it to advertise its capabilities for speed, duplex, and flow control. When connected to an end station that also supports auto-negotiation, the link can self detect its optimum operating setup.

stack: A group of network devices that are integrated to form a single logical device.

TFTP: Trivial File Transfer Protocol. Allows you to transfer files (such as software upgrades) from a remote device using your switch's local management capabilities.