



IntraCore™ 35160 Series Layer 2 Gigabit Switches

Setup Guide

Quick Start Guide

Follow the steps below to install the IntraCore switch:

1. Open the box and check the contents. See *Chapter 1.2 Package Contents* for a complete list of the items included with the IntraCore switch.
2. Install the switch in an equipment or wall rack, or prepare it for desktop placement.
3. Connect the power supply.
4. Connect network devices to the switch.
5. Refer to the User's Manual on the accompanying CD-ROM for configuration and management capabilities.



For more information on installing the switch, please refer to *Chapter 2 Installation and Setup*.

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1 Introduction

Thank you for purchasing the Asanté IntraCore 35160 Series Gigabit switch. These switches are a family of multi-media and multi-protocol switches capable of supporting Layer 2 switching and Layer 3 and Layer 4 protocols. They are designed to offer industry-leading performance at a very competitive cost of ownership.

Each IntraCore 35160 switch is a 16-port solution for Gigabit Ethernet switching using shared-memory architecture to achieve Gigabit switching on all ports. The highly integrated system includes MACs, Address Look-up Content Addressable Memory (CAM), Switch Engine, Primary Buffer Memory, and programmable Quality of Service (QoS).

Two models in the 35160 series cover different customer applications.

The IntraCore 35160-T is a 16-port switch that has 12 10/100/1000BaseT ports and 4 dual function Gigabit ports that support either 1000BaseT RJ-45 Gigabit ports or GBIC Gigabit ports.

The IntraCore 35160-G is a 16-port switch that has 12 GBIC style Gigabit Ethernet ports and 4 dual function Gigabit ports that support either 1000BaseT RJ-45 Gigabit ports or GBIC Gigabit ports.

The following types of GBIC modules are supported on the 35160 switches:

- 1000SX multi-mode fiber for 500m applications
- 1000LX single-mode fiber for 2km applications
- 1000LH single-mode fiber for 20km applications
- 1000LZ single-mode fiber for ultra distance (120km) applications
- 1000BaseT Copper Gigabit for low-cost 100m applications

The system can operate as a stand-alone network or be used in combination with other IntraCore series switches in the backbone.

1.1 Features

The IntraCore 35160 is a multi-media, multi-protocol switch designed to be a high-performance, compact Layer 2 switch that is field upgradeable to Layer 4 Type of Service. It utilizes the Switch-Core-CXE2010 packet processor to support its many features. The following is a partial list of the switch's features (please refer to the User's Manual on the CD-ROM for a complete list of features):

- SNMP v.1 and RMON (4 groups), telnet, console menu-driven management
- MIBs: MIB II (RFC 1213), RMON (RFC 1757), 802.1Q/p (RFC 2674), Bridge (RFC1493), Asanté Private MIB
- IEEE 802.1q VLAN
- IEEE 802.1p 8-level Class of Service
- IEEE 802.3x Flow Control
- IEEE 802.1D Spanning Tree
- IGMP V1, V2 snooping
- Support for up to 256 multicast groups
- Large address table of up to 8000 MAC addresses
- MAC address ageing
- MAC/IP address table display
- Provides Jumbo Packet support up to 16384 Bytes in size
- Port security, including station move detection and Duplicate IP detection; 1 trusted address per port
- Port Mirroring/monitoring on Ingress only (upgrade to Ingress/Egress)
- Local and Global port management

1.2 Package Contents

The following items are included in your package:

- Switch
- AC power cord
- Rack mount brackets with screws
- Rubber feet

- User's Manual (on CD-ROM)
- Getting Started Guide (this document)
- IntraCore 35160 CD-ROM

Contact your dealer immediately if any of these items is missing.

1.3 LEDs

The system's front panel LED display allows the manager to monitor the status of the switch. Refer to the following sections for LED information specific to the switch's model.

1.3.1 IC35160-T

The IC35160-T has one power LED indicator, one (optional) emergency power LED, and two LED indicators for each of the 16 ports. See the table below for a complete LED description.

LED	Color	Description
Power	Green	Power is on.
	Off	Power is off, or main power has failed.
Emergency Power (optional)	Green	Primary power has failed and optional power supply is powering the switch.
	Off	Optional power supply is in standby mode and primary power is working.
Link/Speed	Green	A valid 1000Mbps link has been established.
	Yellow	A valid 10/100Mbps link has been established.
	Off	No link has been established.
Duplex/Activity	Blinking Green	Activity is detected in full-duplex mode.
	Blinking Yellow	Activity is detected in half-duplex mode.
	Off	No traffic has been detected, or no link has been established.

1.3.2 IC35160-G

The IntraCore 35160-G has one power LED, one (optional) emergency power LED, two LED indicators for 10/100/1000BaseT status, and one LED for GBIC status. See the table below for a complete LED description.

LED	Color	Description
Power	Green	Power is on.
	Off	Power is off, or main power supply has failed.
Emergency Power (optional)	Green	Primary power has failed and optional power supply is powering the switch.
	Off	Optional power supply is in standby mode and primary power is working.
BaseT 10/100/1000 Link/Speed	Green	A valid 1000Mbps link has been established.
	Yellow	A valid 10/100Mbps link has been established.
	Off	No link has been established.
BaseT 10/100/1000 Duplex/Activity	Blinking Green	Activity is detected in full-duplex mode.
	Blinking Yellow	Activity is detected in half-duplex mode.
	Off	No traffic has been detected, or no link has been established.
GBIC Link	Green	A valid 1000Mbps link has been established.
	Off	No link has been established.

1.4 Front and Back Panel Descriptions

Refer to the following sections for detailed descriptions of the front and back panels of the IntraCore 35160 series switches.

1.4.1 IC35160-T

The front panel of the IC35160-T contains the following: power and port LEDs; 12 10/100/1000BaseT ports; 4 dual-function Gigabit ports that support either 1000BaseT or GBIC style Gigabit Ethernet ports; and a console port.



The back panel, shown below, contains a 12VDC jack for (optional) emergency power; the primary power bay cover plate; the primary power outlet; and the on/off switch.



1.4.2 IC35160-G

The front panel of the 35160-G contains the following: power and port LEDs; 12 GBIC ports; 4 dual-function Gigabit ports that support either 1000BaseT or GBIC style Gigabit Ethernet ports; and a console port.



The back panel, shown below, contains: A 12VDC jack for (optional) emergency power; the primary power bay cover plate; the on/off switch; and the primary power outlet.



1.5 Management and Configuration

A network administrator can manage the switch with three different methods: web, console/telnet, or SNMP software. They may prefer using a web browser to enable configuring the switch from any local or remote computer, via the network, or they may wish to use a console for out-of-band management. The switch's default IP address is **192.168.0.1** and the default password is **Asante** (the password is case sensitive and must appear exactly as it is shown here). SNMP is an advanced management application, and is mostly automatic, giving the information without having to go through an interface step-by-step (**Note:** The switch is shipped with BootP support. See *Appendix F BootP Configuration* of the User's Manual for more information on setting up BootP.)

1.5.1 Console Interface

Users can access the switch in a more traditional way by connecting a PC or terminal to the console port or by telnet across the network. The menus are organized in a manner similar to the web-based interface. A detailed description can be found in *Chapter 3 Configuration* of the User's Manual (CD-ROM.)

Note: By default, the HTTP server is disabled. In order to manage the switch through the web interface, the HTTP server function must be enabled via the console interface.

1.5.2 Web-Based Interface

With Internet access, users can link directly to the local switch's home page. The web interface uses a default user name of **root** (the default password is **Asante**). After enabling the HTTP server through the console interface, users can configure the switch via the web browser. A detailed description can be found in *Chapter 5 Web-Based Management* of the User's Manual.

1.5.3 SNMP Management

Because the switch supports SNMP, users can manage the switch with an SNMP-compatible management station running platforms such as HP OpenView. It also supports a comprehensive set of MIB extensions, along with MIB II, Ethernet MIB, the 802.1D bridge MIB, and 4 groups of RMON. Please see *Chapter 3 Configuration*, or *Chapter 6 SNMP Management* in the User's Manual for more information.

2 Installation and Setup

This chapter explains how to install and connect the switch to the network. To configure the switch for management, refer to the User's Manual on the CD-ROM.

The following guidelines will help in installing the switch in such a way that it has the proper power supply and environment.

2.1 Safety Overview

The following information provides safety guidelines to ensure safety and to protect the switch from damage.

Note: Be aware, however, that this information is intended as a guideline, and may not include every possible hazard to which the user may be exposed. Use caution when installing this switch.

- Only trained and qualified personnel should be allowed to install or replace this equipment
- Always use caution when lifting heavy equipment
- Keep the chassis clean
- Keep tools and chassis components off the floor and away from foot traffic
- Avoid wearing rings or chains (or other jewelry) that could get caught in the chassis. Metal objects can heat up and cause serious injury to persons and damage to the equipment. Avoid wearing loose clothing, such as ties or loose sleeves

When working with electricity, follow these guidelines:



- Before accessing the interior of the chassis, locate the emergency power-off switch for the room you are in
- Disconnect all external cables before installing or removing a chassis
- Do not work alone when working with electricity
- Always check that the power has been disconnected from the circuit
- Do not tamper with the internal components of the switch. This

- could void the product's warranty
- Examine the work area for potential hazards (such as wet floors or ungrounded cables) and eliminate them before installing the switch

For more safety information, please refer to the User's Manual.

2.2 Recommended Installation Tools

The following tools and equipment (not included) are needed to install the switch:

- Flat head screwdriver
- Phillips head screwdriver
- Antistatic mat or foam



2.3 Power Requirements

The electrical outlet should be located near the switch and be easily accessible. It must also be properly grounded.

Make sure the power source adheres to the following guidelines:

- Power: Auto-switching 110/240 VAC
- Frequency range: 50/60 Hz
- Maximum input AC Current: 1.0A at 115 VAC full load

2.4 Environmental Requirements

The switch must be installed in a clean, dry, dust-free area with adequate air circulation to maintain the following environmental limits:

- Operating Temperature: 0° to 40° C (32° to 104° F)
- Relative Humidity: 10% to 90% non-condensing

Failure to observe these limits may cause damage to the switch and void the warranty.

Avoid direct sunlight, heat sources, or areas with high levels of electromagnetic interference.

2.5 Cooling and Airflow

The switch uses internal fans for air cooling. Do not restrict air flow by covering or obstructing air vents on the sides of the switch.

2.6 Installation Overview

Follow these steps to install the switch:

1. Open the box and check the contents. See *Chapter 1.2 Package Contents* for a complete list of the items included with the switch.
2. Install the IntraCore switch chassis in an equipment rack or wall rack, or prepare it for desktop placement.
3. Connect the power supply.
4. Connect network devices to the switch.
5. Refer to the User's Manual on the CD-ROM for configuring the switch for management capabilities.

2.7 Chassis Installation/Placement

The switch can be installed in a standard 19-inch equipment rack. It can also be placed on a stable horizontal surface.

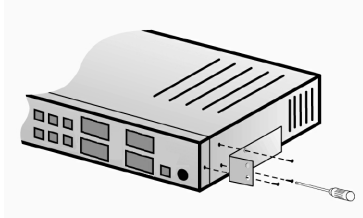
Note: The equipment rack or desk on which you install the switch *must* be secure and stable. Equipment racks must be fastened to the floor; desks must be resting on a flat, stable surface.

2.7.1 Installation in an Equipment Rack

Important! Before continuing, disconnect all cables from the switch.

To mount the switch onto an equipment rack:

1. Place the switch on a flat, stable surface.
2. Locate a rack-mounting bracket (supplied) and place it over the mounting holes on one side of the unit.
3. Use the screws (supplied) to secure the bracket (with a Phillips screwdriver).
4. Repeat the two previous steps on the other side of the unit.
5. Place the switch in the equipment rack.
6. Secure the switch by securing its mounting brackets onto the equipment rack.



Important! Make sure the unit is supported until all of the mounting screws for each bracket are secured to the equipment rack. Failure to do so could cause the unit to fall, which may result in personal injury or damage to the unit.

2.7.2 Equipment Rack Guidelines

- Size: 17.1 x 10.1 x 1.6 inches (IC35160-T)
17.5 x 14.0 x 2.6 inches (IC35160-G)
- Ventilation: Ensure that the rack is installed in a room in which the temperature remains below 40° C (104° F). Be sure that no obstructions, such as other equipment or cables, block airflow to or from the vents.
- Clearance: In addition to providing clearance for ventilation, ensure that adequate clearance for servicing the switch from the front exists.

2.7.3 Free-Standing/Desktop Placement

The switch has rubber feet for the bottom of the case that allow for secure, free-standing placement of the unit.

Follow the steps below for free-standing/desktop placement:

1. Attach the rubber pads (supplied) to the bottom of each corner of the unit.
2. Place the unit on a flat, stable surface.
3. Make sure enough ventilation space between the switch and surrounding walls or objects exists.

2.8 Installing GBIC Interfaces

Instructions for installing, removing, and maintaining GBIC interfaces are provided in this section.

Note: Auto-negotiation must be disabled on a port where a copper GBIC is installed.

Important! The 35160-G has 12 GBIC ports that are paired—port numbers 1 and 2, 3 and 4, 5 and 6, 7 and 8, 10 and 12, and 14 and 16. Do not use more than one copper GBIC module per pair, or no more than 6 copper GBIC modules total.



2.8.1 Installing a GBIC

Note: GBICs are hot-swappable. This means that they can be inserted and removed while the unit is powered on.



1. Remove the GBIC from its protective packaging.
2. Grip the sides of the GBIC with your thumb and forefinger, then insert the GBIC into the slot on the face of the Gigabit Ethernet module.
3. Slide the GBIC into the slot until you hear or feel a click. The click indicates that the GBIC is locked into the slot.
4. Connect your network cable.

2.8.2 Removing a GBIC

Note: Copper GBIC modules run hot under normal operating conditions. Remove with care and place on a heat-resistant surface and allow to cool before handling.

Follow the steps below to remove a GBIC interface from a Gigabit Ethernet module:

1. Disconnect the network cable from the GBIC connector.
2. Release the GBIC from the slot by simultaneously squeezing the locking tabs on both sides of the GBIC.
3. Slide the GBIC out of the slot and store the GBIC in its protective packaging.

2.8.3 GBIC Care and Handling

Follow these GBIC maintenance guidelines:

- Unnecessary removal and insertion of a GBIC can lead to its premature failure. A GBIC connector has a lifetime of 100 to 500 removals/insertions
- GBICs are static-sensitive. To prevent ESD damage, follow your normal board and component handling procedures
- GBICs are dust-sensitive. When the GBIC is stored or when a fiber-optic cable is not plugged in, always keep plugs in the GBIC optical bores
- Use an alcohol swab or Kim -Wipe to clean the ferrules of the optical connector. The most common source of contaminants in the optical bores is debris picked up from the optical connectors

2.9 Installing Optional Emergency Power Supply

To ensure increased reliability for mission-critical applications, the IC35160 can be equipped with a 12VDC emergency backup power supply (the IC35-EPS12, sold separately). When installed, the emergency power supply is in standby mode. Should the primary unit fail, the DC backup automatically switches on and the LED on the front panel lights. In addition, an SNMP fault notice is sent.

Should the IC35-EPS12 become active due to a fault with the primary power, the unit should be swapped out at the earliest convenience and sent for repair. The IC35-EPS12 is designed to be a temporary replacement when the primary power fails, not a permanent replacement.

To install the optional power supply, simply attach the 12VDC connector of the power supply to the jack located in the center of the rear panel of the switch. Connect the power cord to the power supply and plug the power cord into an outlet.

Important! The optional power supply becomes **HOT** under normal operating conditions. To avoid damage or injury, set the power supply on a heat-resistant surface and **USE CAUTION** when handling the unit.

2.10 Connecting Power

Important! Carefully review the power requirements (Chapter 2.3) before connecting power to the unit.

Use the following procedure to connect power to the switch:

1. Plug one end of the supplied power cord into the power connector on the back of the unit.
2. Plug the other end into a grounded AC outlet. The power LED will begin its initialization process.

The front panel LEDs blink and the power LED illuminates when it has initialized. The switch is ready for connection to the network.

Important: If the power does not come on, refer to *Appendix A Troubleshooting*.

2.11 Connecting to the Network

The switch may be connected to an Ethernet network with the unit powered on or off. Use the following procedure to make your network connections:

1. Connect network devices to the switch, using the cable guidelines that follow.
2. After the unit is connected to the network, it can be configured for management capabilities. Please refer to the User's Manual on the CD-ROM for instructions on how to set up the management features of the switch.

2.11.1 10/100/1000BaseTX Ports Cabling Procedures

The 10/100/1000 ports on the switch allow for the connection of 10BaseT, 100BaseTX, or 1000BaseT network devices. The ports are compatible with IEEE 802.3 and 802.3u standards.

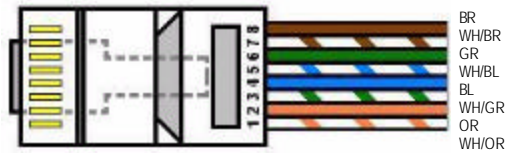


Important: The switch must be located within 100 meters of its attached devices.

Note: This switch has no uplink port. All 10/100/1000 ports on this switch are auto-sensing MDI/MDI-X. This advanced feature means that the 10/100/1000 ports will automatically determine whether the device at the other end of the link is a hub, switch, or workstation, and adjust its signals accordingly.

Although 10BaseT requires only pins 1, 2, 3, and 6, Asanté strongly recommends cables with all 8 pins wired as shown in the following table.

1000BaseT DOES require that all four pairs (8 wires) be connected correctly. The following table shows the correct pairing of all eight wires.



Pin Number	Pair Number & Wire Colors
1	2 White/Orange
2	2 Orange/White
3	3 White/ Green
4	1 Blue/White
5	1 White/Blue
6	3 Green/White
7	4 White/Brown
8	4 Brown/White

2.11.2 GBIC Gigabit Ethernet Ports Cabling Procedures

Cabling requirements for the GBIC Gigabit Ethernet modules depend on the type of GBIC interface installed. Use the following guidelines to determine the cabling requirements for your GBIC:

- 1000BaseSX GBIC: Cables with SC-type fiber connectors; 62.5-micron multimode fiber (MMF) media up to 275 meters (902 feet) long, or 50-micron MMF media up to 550 meters (1805 feet) long
- 1000BaseLX GBIC: Cables with SC-type fiber connectors; 10-micron single mode fiber media up to 5 kilometers (16,405 feet) long
- 1000BaseLH GBIC: Cables with SC-type fiber connectors; 10-micron single mode fiber media up to 20 kilometers (65,617 feet) long
- 1000BaseLX Long Haul GBIC: Cables with SC-type fiber connectors; 10-micron single mode fiber media up to 100 kilometers (328,100 feet) long
- 1000BaseLZ GBIC: Cables with SC-type fiber connectors; 10-micron single mode fiber media up to 120 kilometers (393,701 feet) long
- 1000BaseT: Category 5 or better Unshielded Twisted Pair (UTP) cable to a distance of 100 meters (328.1 feet) long

Please refer to the User's Manual (CD-ROM) for information on how to configure and manage the switch.

Appendix A Troubleshooting

In the unlikely event that your network does not operate properly, follow the troubleshooting tips below:

1. **CHECK YOUR POWER CONNECTION.** Is the Power LED on? If not, plug the power cord into another known working AC outlet.
2. **CHECK YOUR NETWORK CABLES.** Are the LINK LEDs on? If not, check the cable connections. Are the connectors seated correctly in each port? Make sure that the correct type of cable is connected to each port.
3. **CHECK YOUR GBIC CONNECTORS.** Are the cables inserted correctly? The receiving and transmitting plugs must be inserted into their respective receptacles correctly in order to establish a link.

See the Troubleshooting section of the User's Manual (CD-ROM) for more detailed information.

Appendix B Safety and Regulatory Compliance

FCC Compliance Statement

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 and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at their own expense.

Safety Advisory

1. This product should be operated from the type of power source indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.
2. Do not allow anything to rest on the power cord. Do not locate this product where people will walk on the cord.
3. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts, resulting in a risk of fire or electric shock. Never spill liquid of any kind on the product.
4. Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage points or other risks. Refer all servicing to service personnel.

Appendix C Specifications

The IntraCore 35160 Series contains Asanté's most powerful, flexible workgroup switches. See the User's Manual (CD-ROM) for detailed specifications.

Physical Dimensions

IC35160-T: 17.1 x 10.1 x 1.6 inches (434 x 257 x 41 mm)

IC35160-G: 17.5 x 14.0 x 2.6 inches (445 x 356 x 66 mm)

Environmental

Operating Temperature: 0 to 40° C (32 to 104° F)

Operating Humidity: 10 to 90% RH

Power Supply

100-240VAC/50-60 Hz universal input

Safety and Emissions Certification

FCC Class A, CE , UL, cUL

Appendix D Serial Port Pin Outs

The console port is used to connect with a terminal using a DB-9 female connector. The setting is 9600-N81. See the table below for a list of pin outs.

Pin Number	Signal	Name
1	CD	Carrier Detect
2	RD	Receive Data
3	TD	Transmit Data
4	DTR	Data Terminal Ready
5	SG	Signal Ground
6	DSR	Data Set Ready
7	RTS	Request to Send
8	CD	Carrier Detect
9	RI	Ring Indicator

Appendix E Warranty and Support

The IntraCore switch is covered by Asanté's 3-year IntraCare™ product warranty and advanced technical support. An additional 2-year warranty is available through AsantéCare™. See the User's Manual (CD-ROM) for more detailed information.

If, after attempting the troubleshooting tips found here and in the User's Manual, your switch is still not operating properly, contact



NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES



BUSINESS REPLY MAIL
FIRST CLASS MAIL PERMIT NO. 4195 SAN JOSE CA

POSTAGE WILL BE PAID BY ADDRESSEE

REGISTRATION CARDS
ASANTE TECHNOLOGIES INC
821 FOX LANE
SAN JOSE CA 95131-9882



Name	Title	Company	Address 1	Address 2	City	State	Zip/Postal	Country	Phone	Fax	Email	Date of purchase	Asanté Part Number	Product Serial Number
------	-------	---------	-----------	-----------	------	-------	------------	---------	-------	-----	-------	------------------	--------------------	-----------------------

Please seal with tape, not staple or paperclip

Asanté Technologies, Inc. Technical Support (801-566-8991 or support@asante.com).

Before contacting Technical Support, however, please register your switch online at www.asante.com/support/registration.html, or by returning the warranty card by mail. In doing so, you'll be entitled to special offers, up-to-date information, and important product bulletins.

- 1) What is your organization's primary business?
- Advertising Agency/Public Relations
 - CAD/CAM
 - Graphic Arts Services
 - Multimedia/Video
 - Sales
 - Finance
 - College/University
 - Higher Education
 - K-12
 - Manufacturing
 - Medical/Dental
 - Printers
 - Prepress
 - Publishing
 - Transportation
 - Corporate/In-plant
 - Non-commercial In-house Graphic Services
 - Other
- 2) My primary job function is (Check only one):
- Business Management (President, Owner, VP etc.)
 - Communications
 - Publishing Management
 - Educational Management
 - Management Information Systems (MIS)
 - Graphic Arts/Design Management
 - Production Management
 - Department Supervisor/Management
- 3) What is your influence on purchasing decisions? and purchase
- Authority to evaluate and purchase
 - Evaluate and recommend
- 4) Have you previously purchased an Asante product?
- Yes
 - No
- If yes, which product?
- Adapters
 - Hubs
 - Switches
 - Prepress
 - Software
 - Other products
- 5) Where did you purchase the product?
- Reseller
 - Direct from Asante
 - Distributor
 - Mail Order
 - Web
 - Other
- 6) Types of workstation operating systems:
- Mac OS
 - Windows 95/98
 - Windows NT/2000
 - Linux
 - UNIX
 - MS DOS
 - Solaris
 - Other
- 7) Number of nodes on your network:
- 2-10
 - 10-50
 - 50-100
 - 100-500
 - 500+
- 8) Type of network:
- LocalTalk
 - Ethernet
 - Fast Ethernet
 - Gigabit Ethernet
 - FDDI
 - ATM
- 9) Type of network operating systems:
- Novell NetWare
 - Microsoft NT/2000
 - AppleTalk/AppleLink/AppleShare
 - UNIX/Linux
- 10) Types of network management software:
- IntraSpection
 - AsantéView
 - SunNet Manager
 - IBM NetView
 - OpCity
 - HP OpenView
 - Other





IntraCore 35160 Series Layer 2 Gigabit Switches
Getting Started Guide

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