

SmartNode™ 10200 Series **TDM+VoIP Smart Media Gateway**

Quick Start Guide



Important — This is a Class A device and is not intended for use in a residential environment.



WARNING

- Do not open the device when the power cord is connected. For systems without a power switch and without an external power adapter, line voltages are present within the device when the power cord is connected.
- For devices with an external power adapter, the power adapter shall be a listed *Limited Power Source*. The mains outlet that is utilized to power the device shall be within 10 feet (3 meters) of the device, shall be easily accessible, and protected by a circuit breaker in compliance with local regulatory requirements.
- For AC powered devices, ensure that the power cable used meets all applicable standards for the country in which it is to be installed.
- For AC powered devices which have 3 conductor power plugs (L1, L2 & GND or Hot, Neutral & Safety/Protective Ground), the wall outlet (or socket) must have an earth ground.
- For DC powered devices, ensure that the interconnecting cables are rated for proper voltage, current, anticipated temperature, flammability, and mechanical serviceability.
- WAN, LAN & PSTN ports (connections) may have hazardous voltages present regardless of whether the device is powered ON or OFF. PSTN relates to interfaces such as telephone lines, FXS, FXO, DSL, xDSL, T1, E1, ISDN, Voice, etc. These are known as "hazardous network voltages" and to avoid electric shock use caution when working near these ports. When disconnecting cables for these ports, detach the far end connection first.
- Do not work on the device or connect or disconnect cables during periods of lightning activity.
- This device contains no user serviceable parts. This device can only be repaired by qualified service personnel.
- If one has reason to open the chassis or case, then the precautions mentioned above shall be followed. This includes both the warnings relating to disconnection of the input power, and the warnings relating to the disconnection of WAN, LAN & PSTN ports.



In accordance with the requirements of council directive 2002/96/EC on Waste of Electrical and Electronic Equipment (WEEE), ensure that at end-of-life you separate this product from other waste and scrap and deliver to the WEEE collection system in your country for recycling.



WARNING

This device is **NOT** intended nor approved for connection to the PSTN. It is intended only for connection to customer premise equipment.

1.0 Before you begin

In the box, you will find:

- One SmartNode 10200
- One set of mounting brackets with screws
- One DB-9 to RJ-45 adapter SCSI Cables and Patch Panels, if applicable
- Three RJ45 Ethernet Straight Cables (male-male)
- One warranty sheet
- One packing slip
- One SmartNode 10200 Series Quick Start Guide
- One SmartNode 10200 Important Notice sheet with unique information for your specific unit

To install the SN10200, you will need (not included):

- Two AC power cords
- 19" equipment rack

2.0 Installing the rack hardware

1. Install rack-mounting hardware on to the SN10200 and install the unit on the equipment rack.
2. Connect the Ethernet port to your management network.

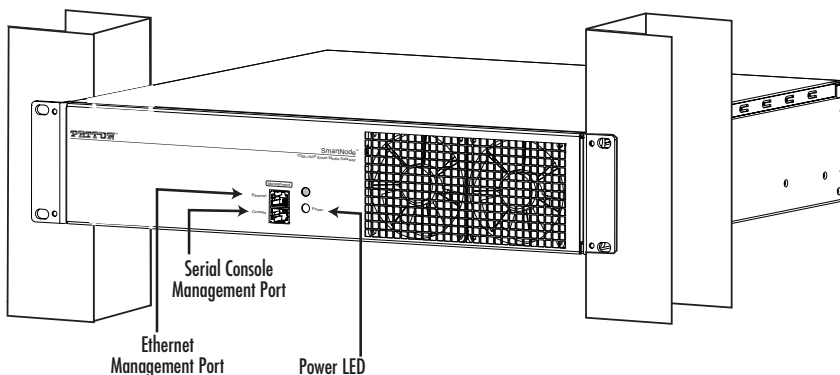


Figure 1. Installing the SN10200

3.0 Connecting to the VoIP Network

1. Connect the VoIP Ports 0/1 and 0/1 to your network.

Note Ethernet ports (ETH 0/0 & 0/1), and SMS ports (SMS-0/0 & 0/1) are not used when connecting VoIP.

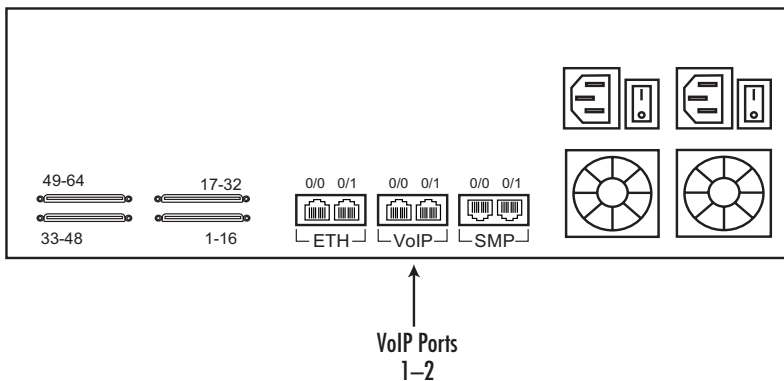


Figure 2. Connecting the VoIP ports

4.0 Connecting to the PSTN Network

1. Connect the SN10200 to the PSTN, using one of the following options:
 - SCSI Interface (T1/E1), (patch panel provided)
 - Dual BNC (DS3)
 - Optical Interface (OC3/STM-1)

4.1 SCSI (T1/E1)

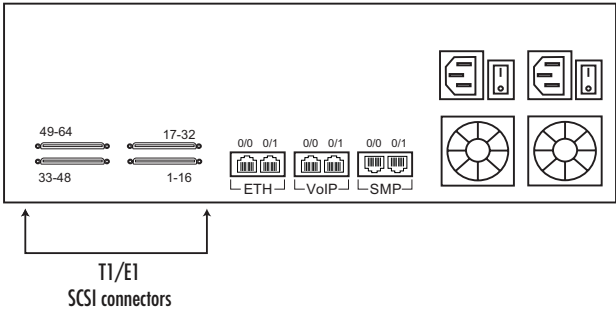


Figure 3. Connecting to the PSTN via SCSI

4.2 Dual BNC (DS3)

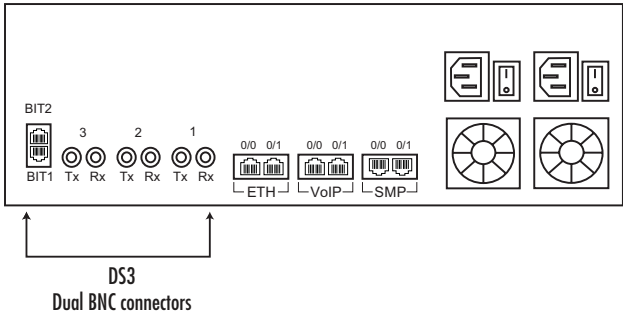


Figure 4. Connecting to the PSTN via Dual BNC connectors

4.3 Optical Interface (OC3/STM-1)

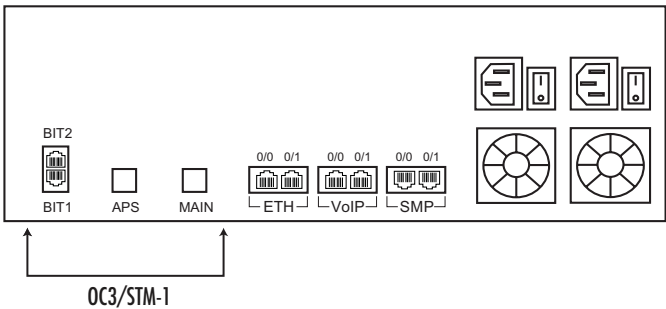


Figure 5. Connecting to the PSTN via the optical interface

5.0 Connecting to the power source

1. Connect to two independent power sources (if only one power source is used, press the green button at the rear of the unit to disable the audible alarm).
2. Verify that the Power LED on the front panel is a Solid Green.

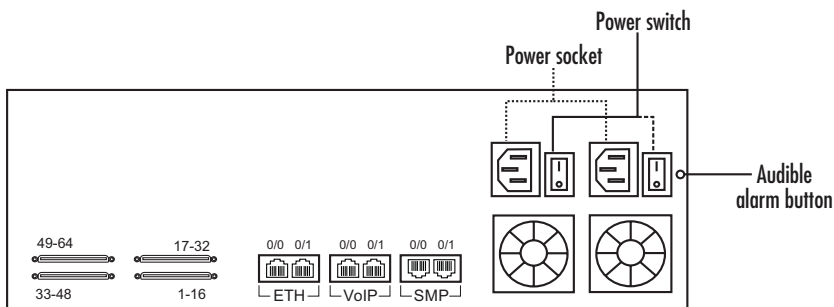


Figure 6. Connecting the power source

6.0 Connecting to the Control host

1. Connect to the Control host through the console serial port (see 6.1 “Connecting the console serial port” on page 7) OR the Ethernet management interface (see 6.2 “Connecting the Ethernet management interface” on page 7).

The IP address of the management port is *192.168.200.10/24*. If it is not possible to connect to the management port via IP, use the serial cable to connect to the SmartNode Control host for the first time.

2. Default HOSTNAME is the Control host serial number, which can be found in the “Important Notice” sheet included with your shipment.
3. Refer to the “Important Notice” sheet for the username and password to log onto the Control host. Navigate to: [HTTP://HOSTNAME:12358](http://HOSTNAME:12358), to configure the SmartNode unit. (username/password: root/root)

6.1 Connecting the console serial port

1. Connect a CAT5 RJ-45 (male-male) cable (supplied with unit) between the COM port of your computer and the serial port (labeled 1010) of the SN10200.
2. If your computer's serial port features a DB9 connector, use the DB9 to RJ-45 adapter supplied with your SN10200. If your computer's serial port features a USB connector, you will need to provide a USB to DB9 adapter.

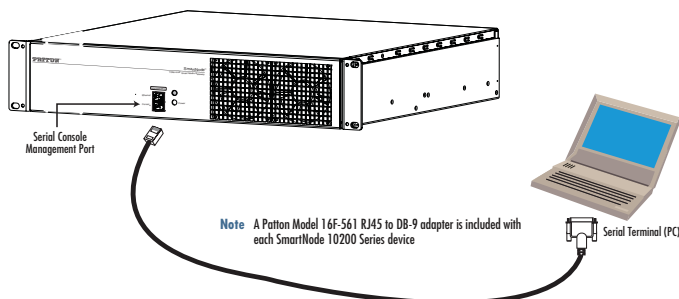


Figure 7. Connecting the console serial port

6.2 Connecting the Ethernet management interface

1. Connect the supplied CAT5 Ethernet cable to the management port labeled Ethernet on the front of the SmartNode 10200.
2. Log into the SmartNode using the specific credentials included on the "Important Notice" sheet that shipped with your unit. The management port is configured with a static Class C IP address by default.

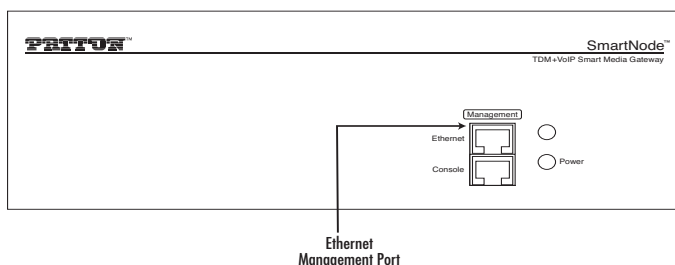


Figure 8. Connecting the management interface

7.0 Configuring the SmartNode

You may access the SmartNode through the console management port, or through the Ethernet management port. Refer to the following sections for more information:

- 7.1 "Accessing the SmartNode via the Console Management port" on page 8
- 7.2 "Accessing the SmartNode via the Ethernet Management port" on page 8

7.1 Accessing the SmartNode via the Console Management port

Logging into the SmartNode Console

1. To physically connect the console serial port, follow the instructions in 6.1 “Connecting the console serial port” on page 7.
2. To communicate with the SN10200 through the console port, you must first configure a terminal emulator or console application (such as HyperTerminal or Putty) in order to configure initial settings. Configure the terminal emulator with the following settings:

Baud rate	Data rate	Parity	Stop bits	Flow control
9600	8 bits	None	1	None

3. Log into the console using the specific credentials included on the 'Important Notice' that shipped with your unit. (If you do not have the “Important Notice” sheet, contact support@patton.com).

7.2 Accessing the SmartNode via the Ethernet Management port

Logging into the SmartNode via SSH

1. To physically connect the Ethernet management port, follow the instructions in 6.2 “Connecting the Ethernet management interface” on page 7.
2. To access the SN10200, you must use an SSH connection. The password is set at the factory and is indicated on the “Important Notice” sheet included with your unit. (If you do not have the “Important Notice” sheet, contact support@patton.com).
3. The factory default configuration for the Management Ethernet Interface is a Static IP address of 192.168.200.10/24.

Preparing for Web Management

After logging into the SN10200 via the console port or SSH, a control menu displays. This menu allows you to complete simple tasks like setting the time zone and configuring the management IP Address, and more complicated tasks like advanced debugging.

For debugging assistance, contact Patton’s Support team at support@patton.com. Once your IP Address and Time Zone are set, there are no more configuration steps in the CLI and you may proceed to the web management page.

8.0 Logging into the Web Interface

This section describes how to login and navigate the SmartNode 10200 Web Portal.

The first step involved in initially configuring any Smart Media system involves logging on to the Web Portal. This can be divided into two distinct tasks: connecting to the 10200 via IP and logging on to the Web Portal. For establishing IP connectivity refer to **7.2 “Accessing the SmartNode via the Ethernet Management port”** on page 8.

8.1 Connecting to the web server

Using a web browser, connect to the Web Portal by typing the following in your address bar:

- `http://[DEVICE HOST NAME]:12358`
or, alternately,
- `http://[DEVICE IP ADDRESS]:12358`

8.2 Logging on to the Web Portal

In order to log on to the Web Portal configuration tool, enter the root user ID and password. The default values for these parameters are:

- User ID: root
- Default password: root

9.0 Additional Information

Refer to the following manuals—available online at www.patton.com/manuals—for detailed information about installing, configuring, and operating the SN10200 models, along with warranty, trademark, and compliance information.

- *SmartNode 10200 Series User Manual* — www.patton.com/manuals/SN10200.pdf
- *Smart Media System Software Configuration Guide* — www.patton.com/manuals/SmartMedia-scg.pdf

A.0 Compliance Information

A.1 Compliance

EMC:

- FCC Part 15, Class A
- EN55022, Class A
- EN ETSI 300 386 V1.3.3

Low-Voltage Directive (Safety):

- UL 60950-1/CSA C22.2 No. 60950-1
- IEC/EN60950-1

A.2 Radio and TV Interference (FCC Part 15)

This device generates and uses radio frequency energy, and if not installed and used properly — that is, in strict accordance with the manufacturer's instructions — may cause interference to radio and television reception. This equipment has been tested and found to comply with the limits for a Class A computing device in accordance with the specifications in Subpart B of Part 15 of FCC rules, which are designed to provide reasonable protection from such interference in a commercial installation. However, there is no guarantee that interference will not occur in a particular installation. If the equipment causes interference to radio or television reception, which can be determined by disconnecting the cables, try to correct the interference by one or more of the following measures: moving the computing equipment away from the receiver, re-orienting the receiving antenna, and/or plugging the receiving equipment into a different AC outlet (such that the computing equipment and receiver are on different branches).

A.3 CE Declaration of Conformity

Patton Electronics, Inc declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. The Declaration of Conformity may be obtained from Patton Electronics, Inc at www.patton.com/certifications.

The safety advice in the documentation accompanying this device shall be obeyed. The conformity to the above directive is indicated by CE mark on the device.

A.4 Authorized European Representative

D R M Green

European Compliance Services Limited.

Avalon House, Marcham Road

Abingdon,

Oxon OX14 1UD, UK

B.O Customer and Technical Support

Toll-Free VoIP support: call **sip:support@patton.com** with a VoIP SIP client

Online support: **www.patton.com**

E-mail support: **support@patton.com** — answered within 1 business day

Telephone support:

- Standard: +1 (301) 975-1007 (USA), Monday–Friday: 8:00 am to 5:00 pm EST (1300 to 2200 UTC/GMT)
- Alternate: +41 (0)31 985 25 55 (Switzerland), Monday–Friday: 9:00 am to 5:30 pm CET (08:00 to 16:30 UTC/GMT)

Fax: +1 (253) 663-5693 (USA) or +41 (0)31 985 25 26 (Switzerland)

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Warranty

For warranty information, refer to the *SmartNode 10200 Series User Manual* available online at www.patton.com/manuals/SN10200.pdf.