

AVN441HD Installation Guide



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- Please visit the support section of our website at www.vsicam.com for manuals, other documentation, and software downloads.
- This is an installation guide only and not the full User's Manual. Current user manuals are available online.

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Equipment Required:

- 1 AVN441HD Blade card
- 1 MPP200 or MPP1700 Chassis with matching power supply
- 1 Ethernet cable
- 1 RJ45 to DB9 serial cable (same as Cisco console cable, only needed for initial configuration)
- 1 Video cable (HDMI or Component)
- 1 Audio connector (for balanced or unbalanced audio input)
or RCA audio cable (unbalanced only)

AVN441HD Hardware Installation

Note: *It is important that the module be properly aligned with the slot guides before it is inserted into the appropriate slot on the chassis. It is recommended that the user's line of sight be level with the middle of the backplane in order to see both slot guides clearly.*

Install a VSI blade into the chassis as follows:

Caution: Use proper ESD precautions when installing or removing a VSI blade to avoid damaging the unit's circuitry.

1. Slide the blade, open end first, into the desired slot on the chassis until it plugs into the connector located on the backplane at the rear of the unit.
2. Use the bottom ejector handle to securely seat the blade into the chassis and to properly mate the rear connectors. The handle should lock closed when properly inserted to secure the unit.
3. Tighten the captive thumb screw located at the top of the blade to provide a more secure mounting.
4. If desired, an additional Phillips screw can be installed through the handle.
5. The Status LED will blink once per second when the blade is properly installed, powered, and operational.

Initial Network Configuration:

1. In order to configure your AVN441HD you will need to know some basic information about the network in which it is going to be installed. Specifically, would you like the unit to be configured statically or set up to use DHCP? If static addressing is used, then you will need to know an available IP address to use, as well as the subnet mask, default gateway and DNS server(s). In general it is recommended that all encoder units be configured statically, because communicating and configuring a unit remotely (over the network without having to use the serial console) requires knowledge of the unit's IP address.

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2. Connect the serial cable between the serial port of the AVN441HD and a COM port on your PC (typically the COM1 port). The AVN441HD uses an RJ-45 to DB9-F serial cable (shipped with the MPP chassis). See the AVN441HD User's Manual for information.
3. Launch a terminal application, such as Microsoft's HyperTerminal.
 - a. In this example, go to the Windows Start menu and select Programs>Accessories>Communications>HyperTerminal.
 - b. Select a name and an icon for this connection, click OK.
 - c. Specify the port that you are connected to on your PC (**typically COM1**), click OK.
 - d. Configure the Port Settings as follows: **Bits per second (38400), Data bits (8), Parity (None), Stop bits (1), Flow Control (None)**. Click OK.
 - e. Press Enter to get the login prompt.
 - i. Login to the unit with the **Username/Password**. The default values are: **admin/admin**
 - ii. The unit will prompt the user to enter IP Address, Netmask, Gateway, and DNS. If you make a mistake before you have finished entering all of the new values, you can press **CTRL+C** to cancel the process and login again to re-enter the network configuration wizard.
 - a. Enter the IP Address:
 - i. To configure the unit for DHCP:
 1. Make sure the network supports DHCP
 2. Enter 0.0.0.0
 3. You will then be prompted for a backup IP address in the event that DHCP fails. Enter a static IP address (ex: 192.168.1.253)
 - ii. To statically configure the unit, enter the IP address (ex: 192.168.1.253)
 - b. Enter the Subnet Mask (ex: 255.255.255.0)
 - c. Enter the Default Gateway (ex: 192.168.1.1)
 - d. Enter the DNS Server Address (ex: 4.2.2.1)
 - iii. Once the initial Network Identification data has been entered, the blade will reboot and it should be accessible at its newly assigned location from a web server. Make sure to connect audio/video and network cables to the blade.
4. Exit HyperTerminal and disconnect your serial cable if no longer needed.

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General Configuration and Control

1. Enter the IP Address of the unit (<http://xxx.xxx.xxx.xxx>) into your favorite web browser, to bring up the AVN441HD's web interface. Log in using the unit's username/password (admin/admin by default).
2. If necessary, the network information can be changed from the Device:Network Page.
3. The Encoding Parameters and Streaming Parameters can also be changed to adapt to initial interoperability testing from the Channel:Encoding and Channel:Stream pages respectively.

Note: *It is recommended that the browser interface be used for everything other than the initial network configuration.*

Further Information:

• Field Upgrade

For update instructions refer to the user's manual and or the AVN4XX update instructions at, http://www.vsicam.com/index.php?p=custom_pages&page_name=AVN4XX_Updates .

• Audio/Video Decoding Formats

AmiNET Decoding (AmiNet130 & AmiNet130H):

igmp://MULTICAST_ADDR:PORT (multicast ts) or
udp://AMINET_IP:PORT (unicast ts)

VLC Decoding:

(Not Recommended, except on "powerful" PCs and then only with 720p streams)

udp://@MULTICAST_ADDR:PORT (multicast ts) or
udp://@:PORT (unicast ts)

The VLC plugin can be launched automatically through Firefox/MSIE browser (if both are installed) from the View button on the main page while streaming.

VSI suggests using Elecard's AVC HD Player 5.5 or later. Download and info at <http://www.elecard.com> .

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Safety and Compliance Information



This product can only be used in a VSI blade system. Unintended use of this product, or use with non-VSI listed components, is forbidden and violates safety approvals.

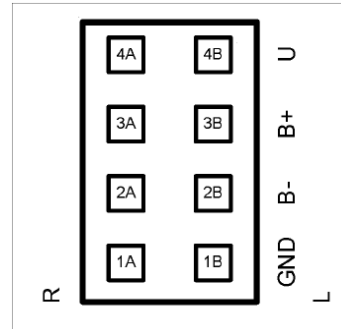
Safety Approval: UL Listed I.T.E. E257717

Audio Terminal Block Connector

Pinouts:

See the following paragraph for instructions on configuring the supplied Audio terminal block connector (supplied).

Pin	Function
1A	Right Ground
2A	Right Balanced Audio Negative
3A	Right Balanced Audio Positive
4A	Right Unbalanced Audio
1B	Left Ground
2B	Left Balanced Audio Negative
3B	Left Balanced Audio Positive
4B	Left Unbalanced Audio



View is looking into the connector.

Note: The L and R designations on the connector faceplate may be incorrectly identified on earlier products. If the connector label does not match the drawing above, follow the pin numbering as identified in the table.

Configuration:

The following describes how to configure the Audio terminal block connector:

1. Cut and strip the wires on the cable that will connect to your audio source. The strip length should be approximately 1/4 inch long.
2. For each connection, insert a small object, such as a screw driver, into the terminal block's latch in order to open the wire clamp.
3. Insert each wire into its wire clamp.
4. Release the latch allowing the wire clamp to close.