Avenview

AV Connectivity, Distribution And Beyond....

VIDEO WALLS VIDEO PROCESSORS
VIDEO MATRIX SWITCHES
EXTENDERS SPLITTERS WIRELESS
CABLES & ACCESSORIES

Control Commands

HDMI
CAT 5/6
HDBT
4K2K
HD ready 1080p
LAN
RoHS Compliant
FC CE

SW-HBT-C6POE-8X8E/16X16E

HDMI HDBASET MODULAR MATRIX BI-DIRECTIONAL IR/RS232POE AND 4K2K SUPPORT

AVENVIEW 3 YEARS WARRANTY

Model #: HDM-SWITCHPRO-VW4

Touchboards
205 Westwood Ave, Long Branch, NJ 07740
Phone: 866-94 BOARDS (26273) / (732)-222-1511
Fax: (732)-222-7088 | E-mail: sales@touchboards.com

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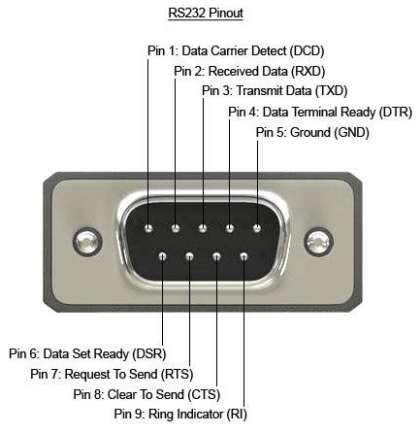
SECTION 1: COMMAND PROTOCOL FORMAT (RS-232 SERIAL PORT)

1.1 SERIAL PORT SETTING:

Baud Rate: 19200bps
Data Bit: 8 bits
Parity: None
Flow Control: None
Stop Bit: 1

RS-232 Wiring (Cross Cable Connection)

SW-HBT-C6POE-16X16E			Controller	
PIN	Definition		PIN	Definition
1	NC		1	NC
2	TxD	→	2	RxD
3	RxD		3	TxD
4	NC		4	NC
5	GND	←	5	GND
6	NC		6	NC
7	NC		7	NC
8	NC		8	NC
9	NC		9	NC



Modular Matrix Chassis CPU SECTION

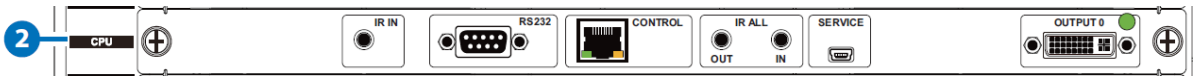
a. RS-232: Connect with D-Sub 9-pin cable from PC/Laptop device to RS-232 for control over the Matrix or the connected RS232 device(s) at the Rx.

b. CONTROL: Connect to an active network line for LAN serving and Telnet/Web GUI control.

c. IR OUT/IN: Reserved.

d. SERVICE: This port is reserved for firmware update only.

e. OUTPUT 0: Connect to DVI/HDMI (with DVI to HDMI adaptor) monitor/TV for local output monitoring.



1.2 TELNET SETTING:

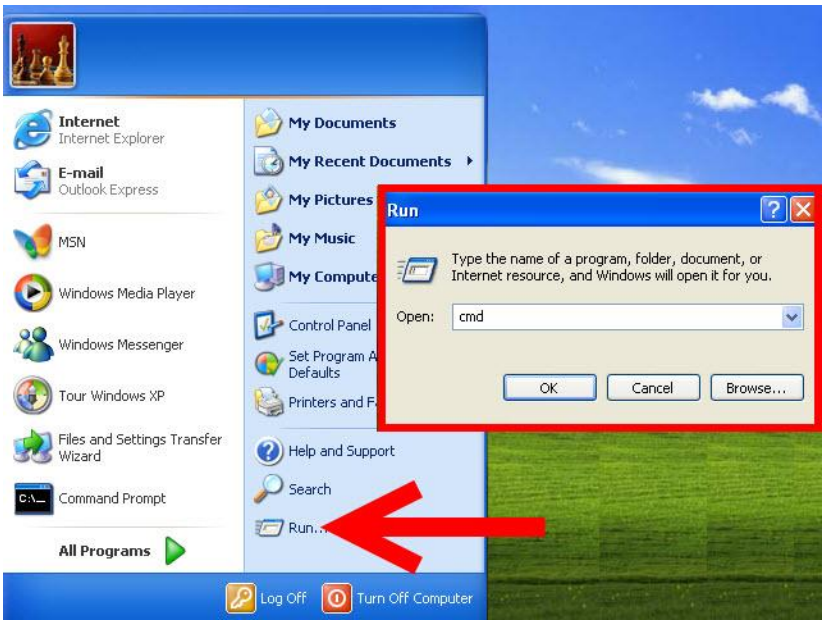
Using TCP/IP protocol, sent to Port 23 for Telnet communication.

The user can confirm from the OSD menu or through RS-232 command to check Telnet connection behavior.

To use the telnet control, please ensure that both the Matrix (via the 'LAN /CONTROL' port) and the PC/Laptop are connected to the active networks not directly connected.

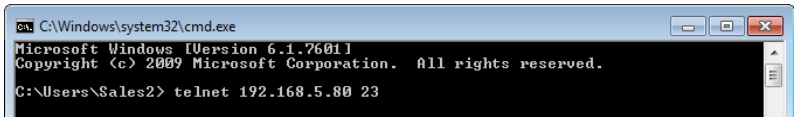
To access the telnet control in Windows 7, click on the 'Start' menu and type "cmd" in the Search field then press enter. Under Windows XP go to the 'Start' menu and click on "Run", type "cmd" with then press enter.

Under Mac OS X, go to Go→Applications→Utilities→Terminal See below for reference.



In the CMD window proceed to type "telnet", then the IP address of the unit and "23", then hit enter/return.

Note: The IP address of the Matrix can be displayed on the device's LCM monitor by pressing the Menu button twice.



After connecting to the Matrix Switcher via IP address. Type "HELP" to preview the list of commands available.

Type “IPCONFIG” To confirm all IP configurations.
To RESET the IP ADDRESS; type “RSTIP” /To SET a STATIC IP, type”SETIP”
(For a full list of commands, see Section 1.3).
Note: *Commands will not be executed unless followed by a carriage return. Commands are case-insensitive. If the IP is changed then the IP Address required for Telnet access will also change accordingly.*

1.3 RS 232 & TELNET COMMANDS:

All commands will be not executed unless followed with a carriage return (0x0D) and commands are case sensitive

Command	Description
P1	Power on.
P0	Power off.
Oxly	Output (x:0~16) set to input (y:1~16).
ALLOUT x	All output set to input (x:01~16).
ACTIVE	Report I/O active channels.
INDETECT	Input channels detect indicator.
OUTDETECT	Output channels detect indicator.
PORTSTATUS	Report all output connection status.
HDCPON x	Setting input port(x:01~16) HDCP on.
HDCPOFF x	Setting input port (x:01~16) HDCP off.
HDCPONALL	Setting all input port HDCP on.
HDCPOFFALL	Setting all Input port HDCP off.
HDCPSTATUS	Show HDCP status of all output(0=HDCP disable,1=enable).
MUTEO x	Video mute command at output (x:0~16) interface.
UNMUTEO x	Video unmute command at output (x:0~16) interface.
MUTEI x	Video mute command at input (x:0~16)interface.
UNMUTEO x	Video unmute command at output (x:0~16) interface.
UNMUTEI x	Video unmute command at input (x:0~16) interface.
MUTEALL	Mute all outputs.
UNMUTEALL	Unmute all outputs.
MUTESTATUS	Show mute status of all output(0=not muted,1=muted).

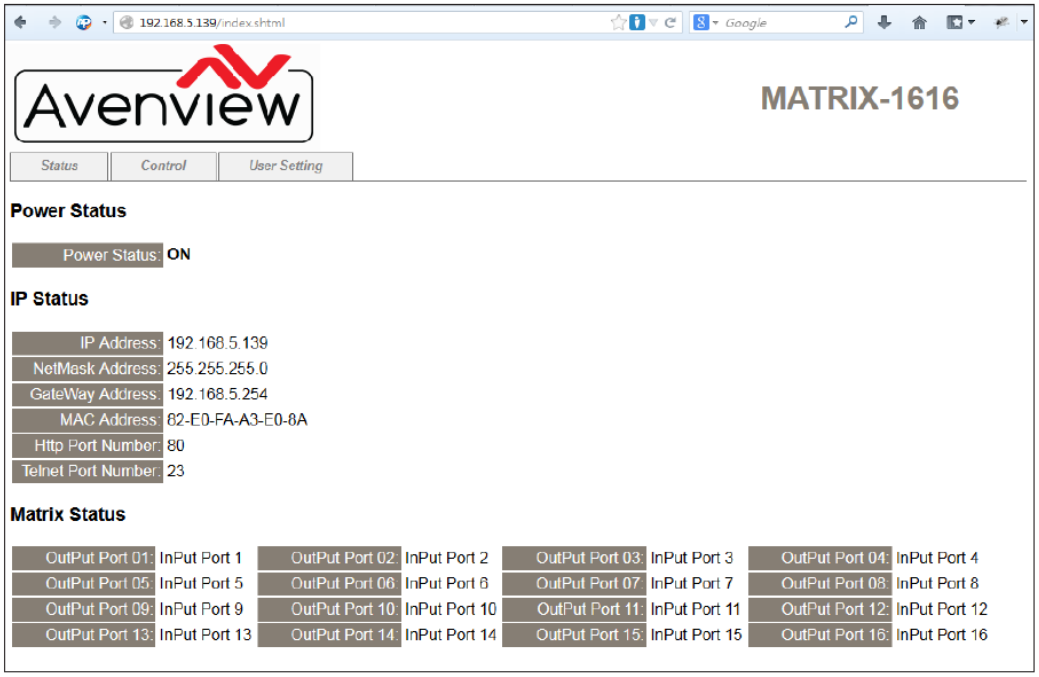
HPDL x	Pull the input(x:01~16) Hot-Plug-Detect signal to 'LOW'.
HPDH x	Pull the input(x:01~16) Hot-Plug-Detect signal to 'HIGH'.
HPDLALL	Set all input HPD to Low.
HPDHALL	Set all input HPD to High.
HPDSTATUS	Report all input Hot-Plug-Detect signal status.
EDIDMODE x y	Set EDID mode(y:1~2) to Input(x: 01~16).
EDIDMODEALL x	The EDID mode(x:1~2) of All Input.
EDIDPORT x y	Set EDID Assigned Port(y:01~16) to Input(x:01~16).
EDIDPORTALL x	The EDID of All Inports is assigned to Output (x:01-16).
EDIDSTATUS	Report all input EDID mode&port.
UART x "str"	Write UART string to output port(x:01~16).
UARTBAUD x y	Setting output port(x:01~16) UART baud rate(y).
STATUSUART	Show output port UART baud rate.
TEMPSTATUS	Show temperature sensor values y1, y2.
SETIPADDR	Setting IP address<x.x.x.x>.
SETSNMASK	Setting subnet mask<x.x.x.x>.
SETGWADDR	Setting gateway IP address<x.x.x.x>.
IPCONFIG	Display the current IP config.
RSTIP	IP Configuration Was Reset To Factory Defaults(DHCP).
BUZZER x	Buzzer Mute(0),UnMute(1).
REBOOT	System reboot.
SAVETO x	Save as Preset x(1~10).
RECALLTO x	Recall Preset x(1~10).

RESET	System Reset to O1I1,O2I2,O3I3,O4I4,O5I5....
VERSION	Display controller firmware version.

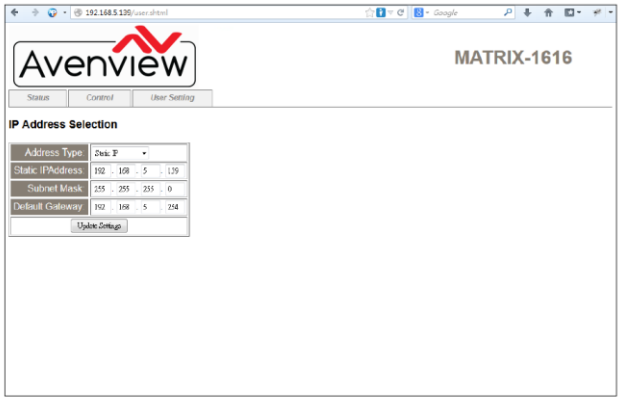
1.4 WEB GUI Control:

All commands will be not executed unless followed with a carriage return (0x0D) and commands are case sensitive

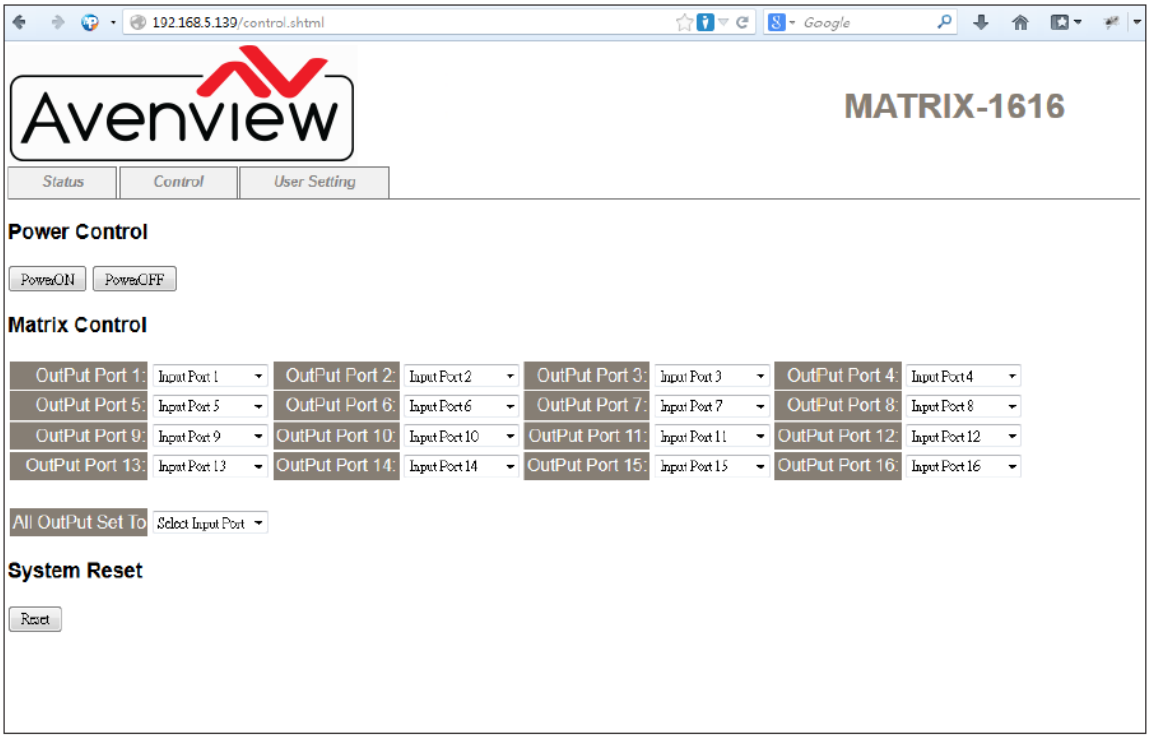
With a PC/Laptop connected to the same active LAN network as the Matrix switcher, click on a web browser and type device's IP address on the web address entry bar. The browser will display the device's status, control and User setting pages.



The 'User Setting' TAB allows the user to reset the IP configuration. The system will require a reboot to the device once any of the settings are changed within this TAB. The IP address needed to access the Web GUI control will also need to be changed accordingly on the web address entry bar.



Click on the 'Control' TAB to toggle power ON/OFF, Input/Output ports, EDID and reset mode.



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