

AC-MX-88X

8K 40Gbps HDMI 8x8 MATRIX SWITCHER

QUICK START GUIDE

Simply stated, the AVPro Edge AC-MX-88X is a classic transformed into an icon. Our engineers focused on reimagining the venerable AC-MX-88, boosting bandwidth to an ultrawide 40Gbps with 8K input and output stages, for a world-first, Next-Gen 8 input / 8 output matrix switching platform providing a foundation for all possibilities that follow. The AC-MX-88X, designed with the needs of Next-Gen users in mind, prepares your clients for tomorrow's over-the-near-horizon signals, while ultrawide bandwidth supplies sure-footed dynamic headroom for hiccup-free performance with HDMI 2.1a devices. With the unmatched pedigree of AVPro Edge behind it tradition never fails, as the AC-MX-88X lets you break convention and seek perfection.



This quick start guide will go through:

- Installation
- Front panel control
- EDID Management
- Network Setup
- RS232
- Troubleshooting

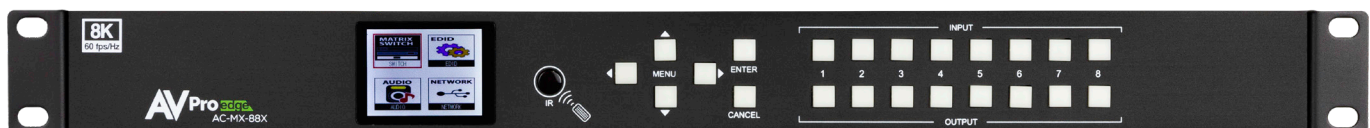
QUICK INSTALLATION

1. Connect the HDMI Input Sources to the desired input of the AC-MX-88X.
2. Connect the HDMI Output Devices.
3. Connect the Power Supply to the AC-MX-88X.
4. Turn on Input Devices.
5. Turn on Output Devices.
6. Control via the Front Panel menu arrows plus the Enter/Cancel buttons, or from the AVPro Edge GUI Interface

FRONT PANEL CONTROL

BUTTONS

- **Menu Buttons** – Directional Buttons to Navigate the Menu(s)
- **Enter** – Selects a new Menu or Menu Option
- **Cancel** – Deselect a Menu Option or return to previous Menu
- **Output** – Select an HDMI Output
- **Input** – Select an HDMI Input



BUTTON COMBINATIONS

To Perform a Factory Reset

1. Depress and Hold Input Buttons 1 and 3 for a total of 5 Seconds

To Lock Keypad

1. Depress and Hold Input Buttons 2 and 3 for a total of 5 Seconds

Switching

The AC-MX-88X may be switched using front panel Output and Input buttons.

1. Select the button(s) corresponding to the Output path(s) you would like to send signal to.
2. The OLED screen will change to the HDMI Matrix Menu.
3. Select the button corresponding to the desired HDMI Input.



EDID MANAGEMENT:

EDIDs may be easily managed, per Input. Navigate to and highlight the EDID icon on the OLED display.

0	1080P_2CH	19	1080P_3D_6CH_HDR
1	1080P_6CH	20	1080P_3D_8CH_HDR
2	1080P_8CH	21	4K30HZ_3D_2CH_HDR
3	1080P_3D_2CH	22	4K30HZ_3D_6CH_HDR
4	1080P_3D_6CH	23	4K30HZ_3D_8CH_HDR
5	1080P_3D_8CH	24	4K60HzY420_3D_2CH_HDR
6	4K30HZ_3D_2CH	25	4K60HzY420_3D_6CH_HDR
7	4K30HZ_3D_6CH	26	4K60HzY420_3D_8CH_HDR
8	4K30HZ_3D_8CH	27	4K60HZ_3D_2CH_HDR
9	4K60HzY420_3D_2CH	28	4K60HZ_3D_6CH_HDR
10	4K60HzY420_3D_6CH	29	4K60HZ_3D_8CH_HDR
11	4K60HzY420_3D_8CH	30	FRL10G_8K_2CH_HDR
12	4K60HZ_3D_2CH	31	FRL10G_8K_6CH_HDR
13	4K60HZ_3D_6CH	32	FRL10G_8K_8CH_HDR
14	4K60HZ_3D_8CH	33	USER1_EDID
15	1080P_2CH_HDR	34	USER2_EDID
16	1080P_6CH_HDR	35	USER3_EDID
17	1080P_8CH_HDR		Copy from HDMI Out1
18	1080P_3D_2CH_HDR		Copy from HDMI Out2

1. Enter the EDID Settings Menu.
2. Press the button to select the Input for the EDID you will be changing.
3. Press Enter to prepare the selected Input for an EDID change.
4. Use the Up or Down Menu buttons to scroll through the EDID options from the Table above.
5. Press the Enter button to select the new EDID you are assigning to the Input.

NETWORK SETUP:

By default, the AC-MX-88X ships set to DHCP. The IPv4 address is easily found by navigating to the Network Settings Menu. Network settings may be adjusted by the following:

1. Use the Up or Down arrow buttons to navigate to the desired field.
2. Press the Enter button to select the field
3. Use the Up or Down arrow buttons to change the field value. When in the Host IP, Netmask, or Router IP (Gateway) fields, use the Left or Right arrow buttons to change between octet fields.
4. Press the Enter button to apply changes to the fields.



Once the Host IP (the IPv4 Address of the device) is known, the AVPro Edge web GUI may be used to configure the switch or use the enhanced diagnostics.

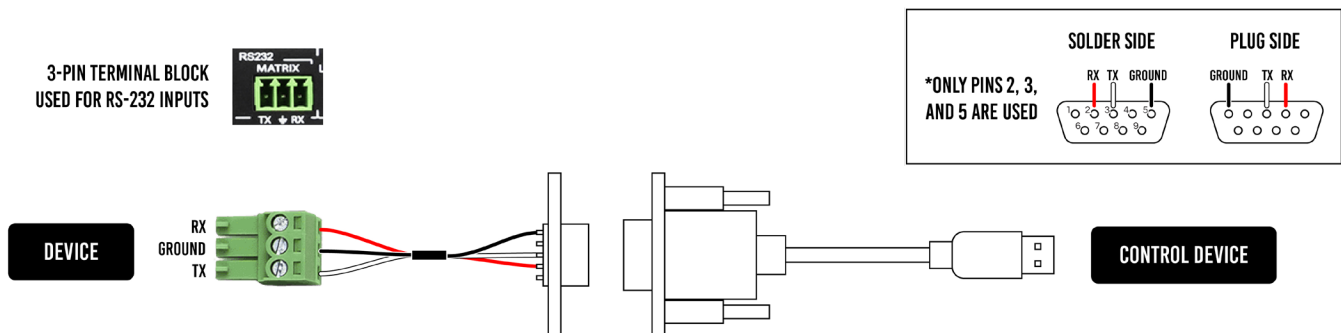
RS232:

For control via RS-232, please follow the wiring information below. When connecting to a



HOW TO RS-232

IN ORDER TO CONTROL VIA RS-232, FOLLOW THE WIRING INFORMATION BELOW. CONNECTING TO A DB9 PORT ONLY PINS 2, 3, AND 5 ARE USED. IF YOUR CONTROL DEVICE DOES NOT HAVE A DB9 PORT, A USB TO DB9 ADAPTER MAY BE REQUIRED. AVPRO EDGE HAS THESE CABLES AVAILABLE (AC-USB-DB9-ADPT).



DB9 port, only pins 2,3 and 5 are used. If your control device does not have a DB9 port, a USB-to-DB9 adapter may be required. Cables are available at AVPro Edge (AC-USB-DBP-ADPT)

1. The unit may be controlled using RS-232 by either the 3-pin, wired Phoenix connector or the USBC ISP Port. Both are located on the rear panel of the switcher. USB Serial Drivers are available at no cost at this link: <https://www.avproedge.com/drivers.html>
2. Connect to the desired COM Port. (Baud 57600/Data Bits 8/Parity None/Stop Bits One)
3. If the above connection is successful, sending the "H<cr>"* command will display the entire API.
*<cr> value dependent on RS232 communicator value. Common <cr> values include \r, 0x0D, \$0D.

TROUBLESHOOTING:

- **Verify Power** – The OLED Diagnostic Screen and LEDs on the Matrix front panel are illuminated when power is present. Ensure the power supply is operating correctly and the Mains plug is connected to an active circuit.
- **Signal Issues** – Verify all HDMI cables are seated correctly, support up to 48Gbps, and for distances greater than 4m, are Active Optical Cables.
- **Single Input/Output Issue** – Swap cables or send the Input to another Output and verify if the issue follows. Try copying the EDID from the display connected to the Output or copying a known working EDID from another display.
- **Issues with legacy HDMI devices when scaling** – Ensure frame rates are 120Hz or lower, and verify Variable Refresh Rate is disabled.

**HAVE A QUESTION OR NEED ASSISTANCE?
DON'T HESITATE TO CONTACT US!**

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