AC-MX-42X

QUICK START GUIDE

THE AC-MX-42X IS A FOUR INPUT, TWO OUTPUT HDMI MATRIX SWITCHER SUPPORTING THE NEWEST HDMI 2.1 FEATURES, INCLUDING HDCP 2.3, HIGH FRAME RATE, AND 8K VIDEO RESOLUTIONS UP TO 40GBPS (FRL5). PERFECT FOR EXPANDING UPON THE AMOUNT OF HDMI 2.1 INPUTS FOR A SINK DEVICE AND BYPASSING THE LIMITED CAPABILITIES OF A LEGACY AVR, ENSURING THE HIGHEST QUALITY EXPERIENCE WITH THE LATEST GAMING CONSOLES, STREAMING DEVICES, AND SATELLITE RECEIVERS IN CONJUNCTION WITH NEWER 4K120/8K DISPLAYS AND AVRS.

AVPRO EDGE HAS BEEN HARD AT WORK BRINGING INTEGRATORS AN UPDATED WEB USER INTERFACE ALLOWING FOR CONFIGURATION, TROUBLESHOOTING, AND CONTROL OF THE 42X UNIT. ADDITIONALLY, THE 42X COMES EQUIPPED WITH AN OLED DIAGNOSTICS SCREEN. PRIMARILY USED TO DISPLAY THE INCOMING SIGNAL TYPE FOR EACH OUTPUT, THE DIAGNOSTIC SCREEN MAY ALSO DISPLAY THE ENABLED SCALING TYPE AND DEVICE IPV4 ADDRESS.

FROM BUILT-IN SCALING TO COMPLEX EDID MANAGEMENT, THE AC-MX-42X CAN WORK PERFECTLY IN ANY SYSTEM.

THIS QUICK START GUIDE WILL GO THROUGH:

- INSTALLATION
- FRONT PANEL CONTROL
- CONNECTING TO THE LAN
- RS232 CONTROL
- EDID MANAGEMENT
- TROUBLESHOOTING

QUICK INSTALLATION:

1. CONNECT THE HDMI INPUT SOURCES TO THE DESIRED INPUT OF THE AC-MX-42X
2. CONNECT THE HDMI OUTPUT DEVICES
3. CONNECT THE POWER SUPPLY TO THE AC-MX-42X
4. TURN ON INPUT DEVICES
5. TURN ON OUTPUT DEVICES
6. CONTROL USING FRONT PANEL OR USING THE AVPRO EDGEUI INTERFACE

DIAGNOSTIC SCREEN | OUTPUT 1 SELECT | OUTPUT 2 SELECT | FUNCTIONAL MODE SELECT | OUTPUT 2 SCALER SELECT

FRONT PANEL:

- DIAGNOSTIC SCREEN – SHOWS OUTPUT SIGNAL INFORMATION
- OUT 1 – CHANGES THE INPUT SOURCE FOR HDMI OUTPUT 1
- OUT 2 – CHANGES THE INPUT SOURCE FOR HDMI OUTPUT 2
- FUNCTIONAL MODE – TOGGLE'S SWITCHER FUNCTION BETWEEN MATRIX AND DISTRIBUTION AMPLIFIER
- SCALER SET FOR OUT 2 – SET'S SCALER MODE FOR HDMI OUTPUT 2
    1. 8K -> 4K = SOLID LED
    2. 8K/4K -> 1080P = FLASHING LED

OR

BUTTON COMBINATIONS:

- AUTO-SWITCH – PRESS AND HOLD THE DESIRED OUT BUTTON FOR 5 SECONDS.
    1. ON = FLASHING OUTPUT LED
    2. OFF = SOLID OUTPUT LED
- DHCP TOGGLE – PRESS AND HOLD FUNCTIONAL MODE BUTTON FOR 5 SECONDS.
    1. ON = OUT 1 LEDS FLASH
    2. OFF = OUT 2 LEDS FLASH
- IPV4 ADDRESS READ – PRESS AND HOLD OUT2 AND SCALER SET BUTTON FOR 5 SECONDS.
    1. WILL DISPLAY ON DIAGNOSTICS SCREEN
- EXTRACTED AUDIO OUTPUT TOGGLE – PRESS AND HOLD OUT2 AND FUNCTIONAL MODE BUTTON FOR 5 SECONDS.
- FACTORY RESET – PRESS AND HOLD SCALER SET BUTTON FOR 5 SECONDS.
   1. ALL LEDS WILL FLASH

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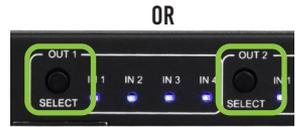
RS232 CONTROL:

- IN ORDER TO CONTROL VIA RS-232, FOLLOW THE WIRING HERE. 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.

3-PIN TERMINAL BLOCK SOCKET USED FOR RS-232 INPUTS

*ONLY PINS 2, 3, AND 5 ARE USED

SOLDER SIDE | PLUG SIDE
RX TX GROUND | GROUND TX RX

DEVICE

RX
GROUND
TX

CONTROL DEVICE
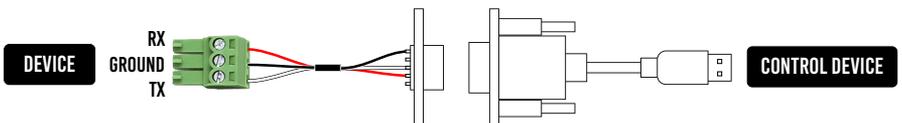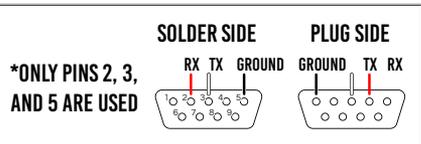
EDID MANAGEMENT:

EDID MANAGEMENT ON THE AC-MX-42X IS BEST DONE USING THE AVPRO EDGE UI WEB INTERFACE. HOWEVER, THIS MAY NOT ALWAYS BE AN OPTION. EDID MAY ALSO BE MANAGED USING THE FRONT PANEL OR USING RS232 VIA THE MICRO USB OR 3 PIN PHOENIX PORTS ON THE UNIT.

- EDID MANAGE FROM THE FRONT PANEL – PRESS AND HOLD OUT1 AND OUT2 BUTTONS FOR 5 SECONDS.
    1. OUT1 BUTTON: TOGGLE INPUT
    2. OUT2 BUTTON: TOGGLE EDID
    3. PRESS AND HOLD OUT2 BUTTON FOR 3 SECONDS TO SET EDID
    4. REFER TO THE EDID TABLE BELOW
- AVPRO EDGE UI (WEB GUI) – THE AC-MX-42X COMES IN DHCP BY DEFAULT. PRESS AND HOLD THE OUT2 AND SCALER SET BUTTON FOR 5 SECONDS. AT THE TOP LEFT OF THE PAGE, SELECT THE MENUS BUTTON, AND NAVIGATE TO THE I/O CONFIG TAB.
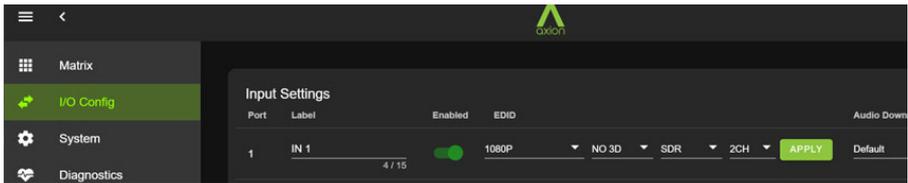
- RS232
    1. CONNECT TO THE DESIRED COM PORT. (BAUD 57600/DATA BITS 8/PARITY NONE/STOP BITS ONE)
    2. END THE FOLLOWING COMMAND BASED UPON THE TABLE BELOW:
        - SET INX EDIDY <CR> - SET INPUT X EDID{X=[0~4](0=ALL), Y=[0~35]
    3. REFER TO THE EDID TABLE BELOW

EDID TABLE:

FRONT PANEL CONTROL WILL SHOW ON OUT2, FUNCTIONAL MODE, AND SCALER SET LEDS.

RS232 #	LIGHT COMBO	EDID	RS232 #	LIGHT COMBO	EDID
0	000000	1080P_2CH	19	110010	1080P_3D_6CH_HDR
1	100000	1080P_6CH	20	001010	1080P_3D_8CH_HDR
2	010000	1080P_8CH	21	101010	4K30HZ_3D_2CH_HDR
3	110000	1080P_3D_2CH	22	011010	4K30HZ_3D_6CH_HDR
4	001000	1080P_3D_6CH	23	111010	4K30HZ_3D_8CH_HDR
5	101000	1080P_3D_8CH	24	000110	4K60HZY420_3D_2CH_HDR
6	011000	4K30HZ_3D_2CH	25	100110	4K60HZY420_3D_6CH_HDR
7	111000	4K30HZ_3D_6CH	26	010110	4K60HZY420_3D_8CH_HDR
8	000100	4K30HZ_3D_8CH	27	110110	4K60HZ_3D_2CH_HDR
9	100100	4K60HZY420_3D_2CH	28	001110	4K60HZ_3D_6CH_HDR
10	010100	4K60HZY420_3D_6CH	29	101110	4K60HZ_3D_8CH_HDR
11	110100	4K60HZY420_3D_8CH	30	011110	FRL10G_8K_2CH_HDR
12	001100	4K60HZ_3D_2CH	31	111110	FRL10G_8K_6CH_HDR
13	101100	4K60HZ_3D_6CH	32	000001	FRL10G_8K_8CH_HDR
14	011100	4K60HZ_3D_8CH	33	100001	USER1_EDID
15	111100	1080P_2CH_HDR	34	010001	USER2_EDID
16	000010	1080P_6CH_HDR	35	110001	USER3_EDID
17	100010	1080P_8CH_HDR		001001	COPY FROM HDMI OUT1
18	010010	1080P_3D_2CH_HDR		101001	COPY FROM HDMI OUT2

TROUBLESHOOTING:

1. VERIFY POWER – THE DIAGNOSTIC SCREEN AND LEDS ON THE FRONT OF THE MATRIX SHOULD BE PRESENT WHEN POWER IS SUPPLIED. ENSURE THE POWER SUPPLY IS OPERATING CORRECTLY.
2. VERIFY CONNECTIONS – CHECK THAT ALL CABLES ARE CORRECTLY CONNECTED AND SUPPORT UP TO 48GBPS.
3. ISSUES WITH ONE INPUT/OUTPUT – SWAP PORTS TO SEE IF ISSUE FOLLOWS. TRY COPYING THE EDID FROM THE DISPLAY.
4. ISSUES WITH LEGACY HDMI DEVICE WHEN SCALING- ENSURE NO GREATER FRAMERATES THAN 120HZ, ENSURE VARIABLE REFRESH RATE IS DISABLED.

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

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