MS-720 NETWORK INTERFACE
QUICK START GUIDE

AUDIO ENHANCEMENT +
Est. 1978

PoE Ethernet   RmtCtrl   Reboot/Factory Default   Discrete Outputs 3 and 4

AUDIO ENHANCEMENT®
MS-720
Assembled in the USA

RmtCtrl Port (T568B)	WPA-70x Port (T568B)
1 (wg) Audio Out +	1 (wg) Mic In+
2 (o) Audio Out -	2 (o) Mic In-
3 (wg) RS232 Tx	3 (wg) GPI 1
4 (b) +24VDC	4 (b) +24VDC
5 (wb) GND	5 (wb) GND
6 (g) RS232 Rx	6 (g) GPI 2
7 (wbr) Audio In +	7 (wbr) GPO 1
8 (br) Audio In -	8 (br) GPO2

Balanced Audio

PoE+ Ethernet
PoE   Activity
Service
RmtCtrl
WPA-70x
Press to reboot
Hold to default

GND   3   4
GPO
GPI
Speaker
NC   +   -

Input - Yellow
Output - Blue
Both - White

Ready   1   2   GPIO
Status
Activity   3   4

USB Port   WPA-70x   Discrete Inputs 3 and 4   Speaker Out   Unit Status   GPIO Status
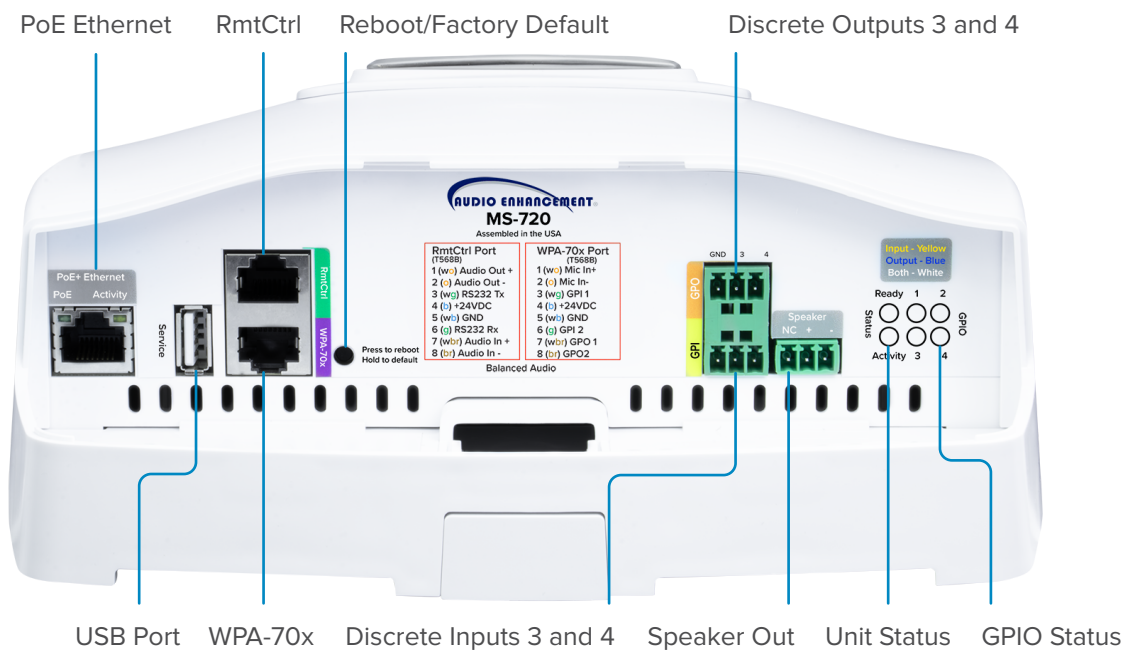
DESCRIPTION

The **MS-720 Network Interface for 2-Way Intercom** is a fully integrated networked classroom amplifier and wireless microphone receiver, perfect for audio in small rooms. This amplifier has network-based intercom, paging and emergency notification. It is easy-to-use, easy-to-install, and features an intuitive user interface. The entire unit utilizes Power over Ethernet (PoE+) and supports full duplex SIP communications. When used in conjunction with an Uninterruptable Power Supply (UPS), paging can still be heard during power outages and emergencies. This unit can be installed as part of the EPIC (Education & Paging Intercom Communications) System®, SAFE (Signal Alert For Education) System®, or integrated with other building systems.

FUNCTIONAL SUMMARY

GENERAL PURPOSE I/O

- (4) Discrete Inputs

- (4) Discrete Outputs

SERIAL COMMUNICATION

- (1) RS232 Connection

AUDIO

- (1) Balanced Audio In

- (1) Balanced Audio Out

- (1) Amplified Speaker Audio Out

REMOTE POWER

- (2) 24 V Out

POWER

- PoE Ethernet

INTERFACES

REMOTE PORT (RMTCTRL)

- Audio Out (Balanced)

- Audio In (Balanced)

- RS232

- 24 V DC

WALL PLATE AUDIO (WPA) PORT

- Connects to the ITC2

IO OUTPUT PORT

- Output 3

- Output 4

IO INPUT PORT

- Input 3

- Input 4

USB PORT (FOR SERVICE ONLY)

RESET BUTTON

LEDS

Ready

- Red while booting and getting an IP address

- Green when operational and connected to an ethernet port

Activity

- Red while an event is active

GPIO

- Blue when the output is closed

- Yellow when the input is closed

- White when both input and output are closed

SPEAKER CONNECTION

- Speaker Out

ETHERNET

- PoE Ethernet

PROCESS

1. Physically install components in the room, such as speakers and/or AV Touch Wall Control.

2. Confirm dongle is connected to USB port.

3. Turn the amplifier on by connecting to PoE Power.

4. Start EPIC System, update the firmware, and continue the setup using the EPIC System software.
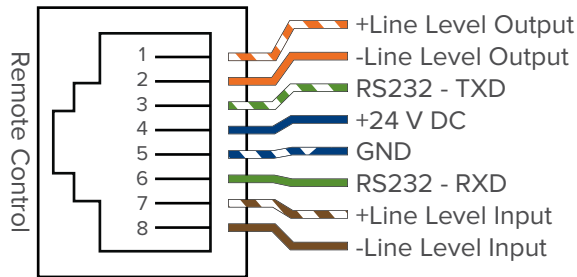
CONFIGURATION SET UP IN EPIC SYSTEM

Follow the instructions in the EPIC System
Admin Manual - Managing Devices.
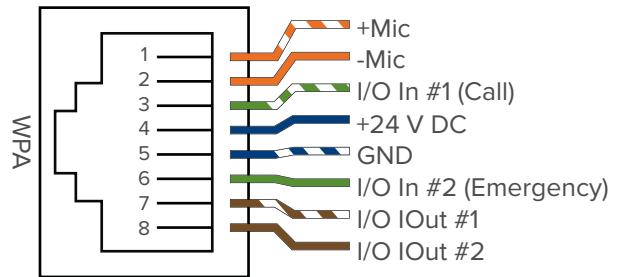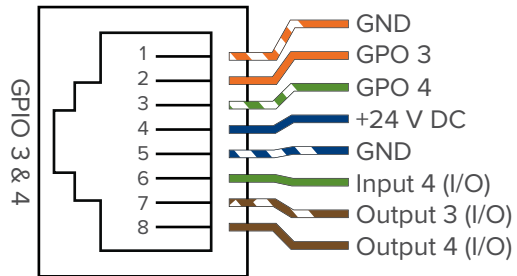
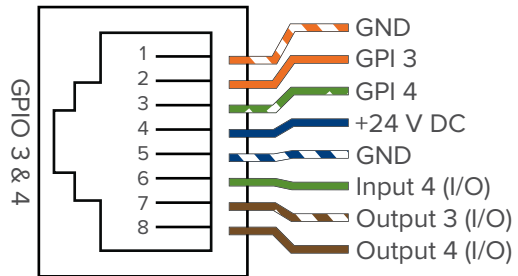Click or Scan QR code to access.

CONNECTOR DETAILS

RMTCTRL PORT

Remote Control

Pin	Signal
1	+Line Level Output
2	-Line Level Output
3	RS232 - TXD
4	+24 V DC
5	GND
6	RS232 - RXD
7	+Line Level Input
8	-Line Level Input

WALL PLATE AUDIO

WPA

Pin	Signal
1	+Mic
2	-Mic
3	I/O In #1 (Call)
4	+24 V DC
5	GND
6	I/O In #2 (Emergency)
7	I/O IOut #1
8	I/O IOut #2

GPO - GENERAL PURPOSE OUTPUT

GPIO 3 & 4

Pin	Signal
1	GND
2	GPO 3
3	GPO 4
4	+24 V DC
5	GND
6	Input 4 (I/O)
7	Output 3 (I/O)
8	Output 4 (I/O)

GPI - GENERAL PURPOSE INPUT

GPIO 3 & 4

Pin	Signal
1	GND
2	GPI 3
3	GPI 4
4	+24 V DC
5	GND
6	Input 4 (I/O)
7	Output 3 (I/O)
8	Output 4 (I/O)

TROUBLESHOOTING

REBOOT

Press and hold the *Reboot* button for 5 seconds.

FACTORY RESET PROCEDURE

Press and hold the *Factory Reset* button until the Activity Indicator flashes green (10 seconds) and then release.

RESCUE MODE

Press and hold the *Reboot* button until the Activity Indicator illuminates red (15 seconds) and then release. Or disconnect PoE power, press and hold the *Reboot* button while applying PoE power.

SIP NOT CONNECTED

Verify that the SIP settings are correct on the device. Try pushing *Settings* from the *Configure* tab on EPIC System again. Pushing *Settings* from the *Devices List* does not push SIP settings.

NO AUDIO

If there is no audio going through the speakers (bells, paging, intercom, teacher mic) check the audio output to see if there is any audio passing through there. This can be done by connecting a pair of wired headphones to the audio out of the MS-720 and playing audio through the MS-720. If you hear audio through the headphones, it is most likely not a problem with the MS-720, and related to the speakers or speaker wiring.

AUDIO ENHANCEMENT +