MAI-420
Master Audio Interface

Description

The MAI-420 Master Audio Interface provides audio communication circuitry and control between a DXI or DXL exchange and a remote location requiring a flush mount master station with an MAI-130 keypad/display module.

Connections are available for interfacing to a loudspeaker, microphone, telephone handset and hook switch, headset, external PTT switch, phantom powered microphone.

Features

- 1 watt 45 ohm loudspeaker interface
- electret microphone interface
- phantom powered input for amplified microphones
- telephone handset interface with PTT input
- hook switch interface to activate handset
- headset interface with jack switch to detect headset connection
- 2 LED's indicate network status
- 3 LED's indicate operating status
- can be connected or removed while the system is operating without disrupting the rest of the system
- internal fuse protects circuitry
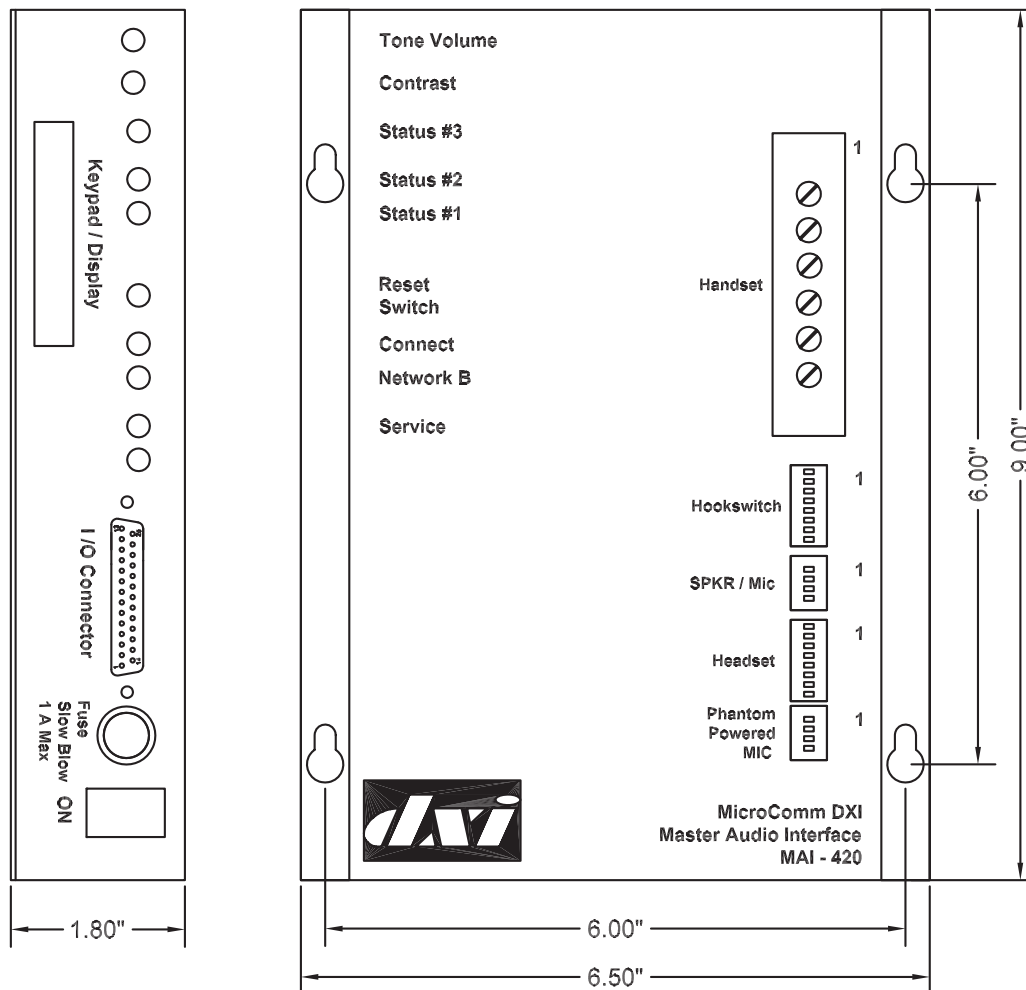- network pass through to panel mount master station

Power Supply	+12 Vdc ±10% @ 500 mA max
	+24 Vdc +10% - 40% @ 500 mA max
Field Connections	
Network, Power, Audio	DB-25
Keyboard/Display	ribbon header
Handset	with 6 position terminal block
Hook Switch	MTA-100-8
Speaker/Microphone	MTA-100-4
Phantom Powered Microphone	MTA-100-4
Headset/Jack Switch	MTA-100-8
Cabling	
Audio	2 22 ga shielded twisted pairs
Network	1* 22 ga unshielded twisted pair
Power	2* 22 ga pair
	* Double for redundant wiring
Handset	1 SP 2 UP provided with handset
Hook Switch	22 ga 5 conductors
Speaker	22 ga 1UTP
Microphone	22 ga 1 STP
Headset/Jack Switch	22 ga
Microphone	22 ga 1 STP
Standard	FCC Part 15

Specifications

Physical	9'' H x 6.5'' W x 1.8'' D
	(229 x 165 x 46 mm)
Environmental	
Operating Temperature	32 to 122 °F (0 to 50 °C)
Storage Temperature	-4 to 158 °F (-20 to 70 °C)
Humidity	0 to 95 % non-condensing

Mechanical

MicroComm DXI
Master Audio Interface
MAI - 420

Tone Volume
Contrast
Status #3
Status #2
Status #1
Reset
Switch
Connect
Network B
Service

Handset

Hookswitch

SPKR / Mic

Headset

Phantom
Powered
MIC

Keypad / Display

I/O Connector

Fuse
Slow Blow
1 A Max

ON

1.80"   6.00"   6.50"   6.00"   9.00"

Ordering Information

Part number MAI-420-AB

    A   power supply options
        1   12 Volt
        2   24 Volt
    B   configurable hook switch interface
        0   none
        1   magnetic/mechanical configurable

Accessories

IMS-130 Keyboard/Display module (required)

Panel mount loudspeaker and microphone assembly

Panel mount gooseneck microphone

Headset with boom microphone

Telephone handset with press to talk bar, cradle, and hook switch

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