## 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

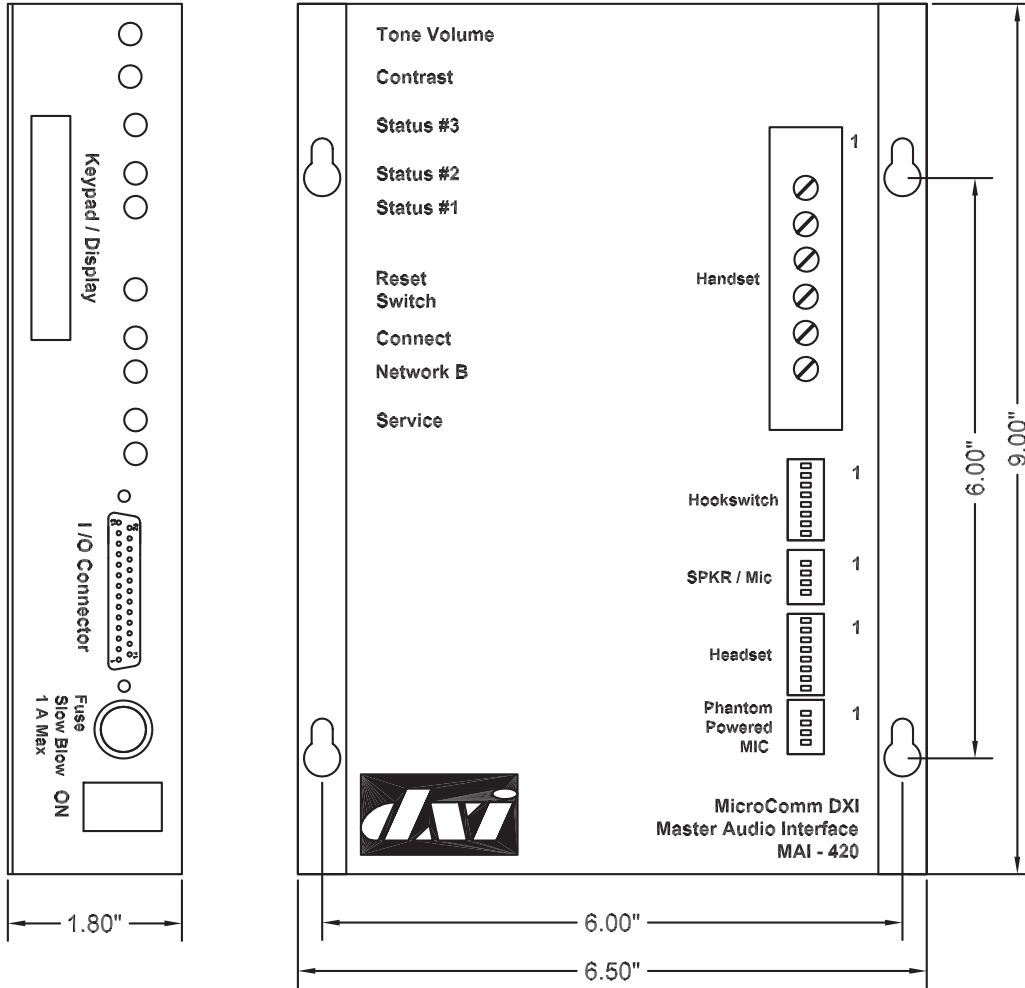| | |
|---|---|
| Physical | 9'' H x 6.5'' W x 1.8'' D |
| | (229 x 165 x 46 mm) |
| Environmental | |
| Operating Temperature | 32 to 122 °F (0 to 50 °C) |
| Storage Temperature | -4 to 158 °F (-20 to 70 °C) |
| Humidity | 0 to 95 % non-condensing |

## Mechanical



Keypad / Display

I/O Connector

Fuse Slow Blow 1 A Max

ON

1.80"

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

Handset

Hookswitch

SPKR / Mic

Headset

Phantom
Powered
MIC

MicroComm DXI
Master Audio Interface
MAI - 420

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

Represented by:

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