



MicroComm DXI

SAB-400 Station Audio Board

Description

The SAB-400 Station Audio Board provides the interface for all 400 series intercom stations in a MicroComm DXI digital system. Each station audio board has 1 full duplex port and 15 half duplex ports. Intercom stations can be connected to any port, while master stations must be connected to the full duplex (16th) port or an adjacent pair of half duplex ports.

A single shielded twisted pair cable connects each intercom station to a station audio board port*. This pair carries all the signals that pass between the station audio board and the intercom including:

- a half duplex audio signal
- 1 or 2 switch inputs
- fault supervision for the wiring
- power for the intercom station

Master stations require an additional audio pair to the SAB for full duplex operation.

Each port provides 1 Watt of power to the intercom station speaker.

Features

- SAB-400 is compatible with ICM-400 and ICS-4X0 series intercom stations
- 15 half duplex digital intercom station ports
- channel 16 is a full duplex master station port
- 8 independent software controlled solid state audio level setting for each channel
- 3 LEDs indicate operating status
- converts analog station audio signals to/from digital format
- each channel can monitor 1 or 2 switches, and carry the audio signal on the same pair
- digital audio bus connections supply a redundant signal to an optional redundant control card
- all field connections on rear of the card to expedite system set up and maintenance
- live card insertion and removal to expedite installation and maintenance
- internal fuse protects circuitry
- internal termination circuitry for line fault supervision to detect open and short circuit faults in intercom station wiring



Specifications

Physical Form Factor	MicroComm DXI I/O card
Environmental	
Operating Temperature	32 to 122 °F (0 to 50 °C)
Storage Temperature	-40 to 158 °F (-40 to 70 °C)
Humidity	0 to 95 % non-condensing
Power Supply provided by I/O Card Cage	±12 Vdc ± 10% @ 2 A max
Field Connections	DB-37 with quick release lock
Cabling	22 ga shielded twisted pair, max 2500 ft (750 m)*
I/O Capacity	1 full duplex port 15 half duplex ports
Standards	FCC Part 15

*Wiring from device to exchange should reside within the same building

