MicroComm DXI

DXI-400 Series
System Data Sheet

Description

The MicroComm DXI digital intercom system is designed and built to meet the rigorous demands of correctional and high security environments. High standards of workmanship, durable materials, and tamper resistant construction coupled with hardware and software designed to simplify installation and maintenance ensure years of trouble free operation.

It's flexible, modular design makes it suitable for use in any size facility and easy to expand or reconfigure. The DXI's many software set-up options allow it to be adapted to meet the unique requirements of any application.

DXI system architecture is founded on a variety of function interface modules, stations, control units, and accessories interconnected through networks and discrete wiring. Equipment may be centralized and/or distributed to best suit the physical requirements of the site.

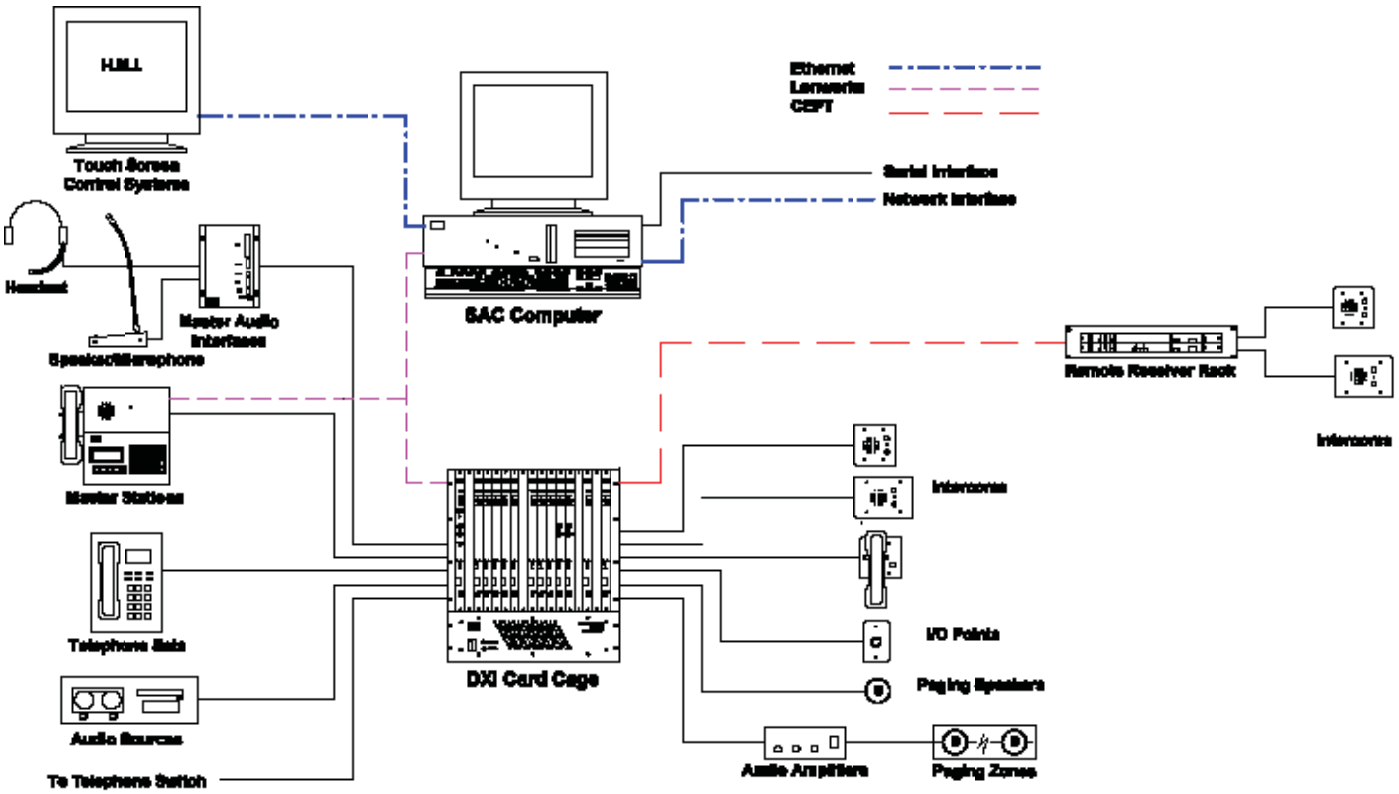
All DXI boards, interface modules, stations, and call devices are designed to be installed, removed, configured, or reconfigured without disrupting other components while the system is in operation. This means that a DXI system will maintain security as it is expanded, serviced, or modified. Diagnostic and test functions can also be performed transparently during operation for performance verification and maintenance.

To help provide staff with the tools they need to remain in complete control, the DXI is easily integrated with other security related systems such as door control, access control, closed circuit television, perimeter detection, and personal alarm. The DXI can also interface other audio functions such as public address, program distribution, recording equipment, two-way radio, and telephone.

New technologies such as digital signal processing, digital switching, and control networks have been used in the DXI. The result is a cost effective system that provides many advanced features.

Features

- Rugged tamper resistant construction
- Modularly expandable to suit any application
- Live component insertion or removal for service and expansion
- Digital signal processing for improved audio
- fast and flexible digital switching
- Non-blocking call connections
- Site specific customization software
- Adjustable software controlled volume levels
- Programmable priority levels
- Supports redundant processing, exchange, network and interface configurations
- Alphanumeric LCD master station displays
- Multilingual SAC computers and master stations
- Automatic call request routing
- Selective and parallel call in to multiple masters
- Hands free and/or push to talk communications
- Multiple music channel distribution to stations
- Point monitoring and control
- Multiple group call and public address zones
- Conference calling and audio station monitoring
- External audio input and output interfaces
- Telephone and two-way radio interfaces
- Touch screen and custom control panel support
- Door control, CCTV, and security system interfaces
- Single pair wiring to stations
- Supervised inputs and protected outputs
- Activity logging and on demand or continuous printing
- Separate operational and maintenance logs
- On line diagnostic testing and system reconfiguration
- Operator identification and multi-level password control
- On line factory support and upgrades via modem



Typical DXI Digital ExchangeConfiguration

Specifications

General	
Audio Band Width	300–3500 Hz
Audio Signal Processing	Digital
Audio Switching System	Digital Time Space Switching
Digital Audio Trunk	CEPT
SAC Data Network	Ethernet
Host Port Network	Ethernet
Exchange Data Network	LonWorks
SAC Operating System	QNX
SAC Application System	MicroComm DXI
Identification Numbers	65,535 per category
Card Cage Capacity	
Total Card Slots	17
Control Card Slots	2 Max
I/O Card Slots	16 Max
Maximum Master Stations	40
Maximum Full Duplex Ports	128
Maximum Half Duplex Ports	256
Maximum Monitor Points	768
Maximum Control Points	768
Backplane Channels	128

Exchange Capacity	
Maximum Card Cages	10
Maximum Master Stations	50
Maximum Full Duplex Ports	1,280
Maximum Half Duplex Ports	2,560
Maximum Monitor Points	7,860
Maximum Control Points	7,860
System Capacity	
Maximum Exchanges	20
Maximum Master Stations	1,000
Maximum Full Duplex Ports	25,600
Maximum Half Duplex Ports	51,200
Maximum Monitor Points	65,535
Maximum Control Points	65,535

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