HARDING MicroComm dxl

Digital Intercom Systems

MicroComm DXL digital intercom systems are specifically designed to meet the rigorous demands of correctional, industrial, and high security applications. Proven performance and reliability in a large number of facilities throughout North America makes MicroComm the number one choice of design professionals, system contractors, and facility owners.

MicroComm digital technology provides a high level of performance and a large feature set at a competitive price. A flexible, distributed architecture reduces wiring and minimizes the cost of installation. MicroComm systems are ideally suited for adding functionality and flexibility when retrofitting relay switched intercom systems.

Clear, crisp and intelligible communications are coupled with functions such as audio level alarm detection and discrete audio monitoring to provide a powerful communications system. A software-based configuration ensures that a MicroComm system is flexible enough to meet future operational needs.

Rugged construction, fault tolerant design, and comprehensive diagnostics make a MicroComm system easy to install and maintain. Modular construction simplifies the coordination of phased construction and facility renovations.

Key Benefits

Clear, crisp audio is the hallmark of a MicroComm system. Excellent speech quality reduces operator stress and minimizes safety concerns. Individual level adjustments and digital filters help to balance a system and compensate for varying room acoustics.

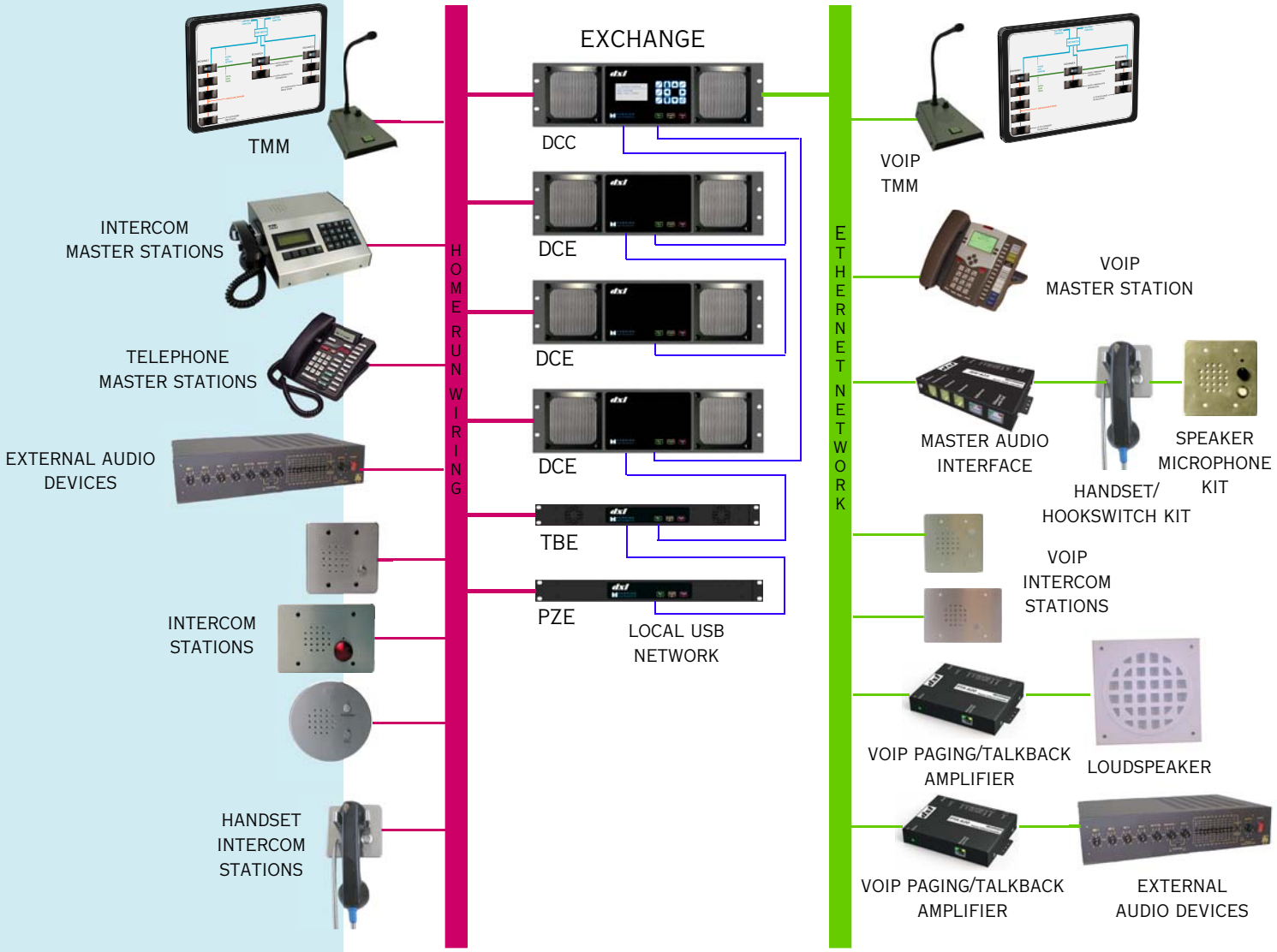
MicroComm systems are reliable and require low maintenance. Digital switching eliminates the use of relays and their corresponding reliability issues. MicroComm systems are software configurable, making implementation of changes or additions straight foreword. Extensive diagnostics provide you with the tools to quickly identify a problem. The overall result is a system with low ongoing maintenance costs.

A single pair of wires multiplex audio and switch closure information from a station. The reduced number of cables means lower installation costs. Fiber optic trunking allows the system to be distributed across several buildings without copper wire connections providing protection from potential lightning damage.

Configuration software allows the system operation to be changed for different times of the week and different times of the day. Modular construction provide the option to easily expand the system at a future date.

MicroComm DXL

MicroComm DXL digital intercom system has been designed to be cost effective for applications in facilities that range from small jails to large distributed complexes with thousands of intercom stations and dozens of master stations.



DXL SYSTEM CAPACITIES

	PER DCC/DCE	PER EXCHANGE	PER SYSTEM
ANALOG MASTERS	2	10	800
VOIP MASTER STATIONS	13	13	1,040
ANALOG INTERCOM STATIONS	32	160	12,800
VOIP INTERCOM STATION	200	200	16,000
FULL DUPLEX HANDSETS	16	80	6,400
ANALOG AUDIO LINE INPUTS/OUTPUTS	34	170	13,600
VOIP AUDIO LINE INPUTS/OUTPUTS	13	213	17,040

*NOTE: STATED CAPACITIES ARE THE MAXIMUMS FOR EACH TYPE. DEVICE CAPACITIES ARE MUTALLY EXCLUSIVE.

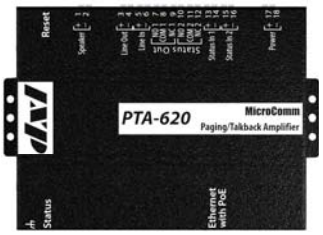
Key Features

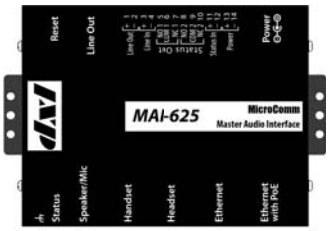
Operating Features

Clear, crisp audio for superior intelligibility
Zero call-blocking architecture
Programmable call routing
Station audio monitoring – sequential and simultaneous
Audio level alarm detection with time controlled parameters
Video visitation intercom functions
Multiple group call and public address zones
Multiple program channel distribution to stations and paging zones
Call and program switch disabling
Call announce and call assurance tones
LED connect, monitor and call assurance indication
Programmable signal tones
Pre-recorded announcement distribution
Event response programming
Supervised contact input point monitoring
Solid state and relay output control
Multi-level password control
Unlimited size of paging and program distribution zones

Operation

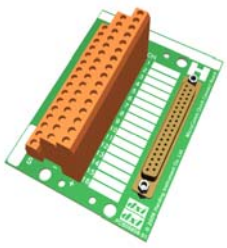
Simple touch screen terminal command interface
Full system control through host computer
Individual volume settings for each intercom station
Multiple master station groups
Alphanumeric descriptions for all devices
Text labeled master station menu keys
Multiple priority levels for all devices
Unit unmanned and timeout call forwarding





Architecture

Flexible, distributed exchange architecture
Digital audio signal processing and switching
Multiplexed audio and data trunks
Fiber optic trunk options
Reduced station wiring
Wide variety of intercom and master stations
Specialty intercom stations available
Audio interfaces to external devices
Telephone set interfaces
Telephone line interfaces
Two-way radio interfaces
Supervised contact monitoring
Solid state and relay output control



Reliability and Maintenance

Rugged, reliable, fault tolerant construction
Redundancy options for key components
Hot swappable components
Comprehensive fault detection, and diagnostics
Built-in troubleshooting features
On-line factory support and upgrades
Activity logging

Why Choose a MicroComm DXL System?

- **Digital Signalling Processing Provides Superior Audio Clarity**
  - **Gain Settings and audio filters can be configured on a per station basis**
  - **Reduced stress**
  - **Reduces chance of operator errors**

- **Zero Call Blocking Architecture**
  - **Every station is afforded its own 1W audio amplifier**
  - **Audio is routed system wide in the digital realm – no relays**
  - **Allows for simultaneous communication for all operators**

- **Field Devices are Continuously Monitored**
  - **MicroComm 2-wire system, (400-series only) provides line supervision to each station to annunciate open and/or shorts**
  - **MicroComm Voice over Internet Protocol (VoIP), (600 series only) "ping" all field devices**
  - **Reports system faults when a station is off-line**

- **400-Series 2-Wire Systems.**
  - **Stations include a Microphone Pre-amplifier that improves audio quality and substantially reduces crosstalk.**
  - **Reduced equipment and installation costs**

- **300-Series 4-wire Systems.**
  - **Allows for the re-use of existing intercom stations in most cases**
  - **Reduces system upgrade cost**

- **Systems Can Utilize a Mixture of 2-Wire, 4-Wire, and VoIP Field Devices**
  - **Equipment adapts to every facility's unique requirements**
  - **Provides for a least cost solution**

- **One Time Facility Software Site Licence**
  - **Provides free software upgrades for the life of the product**
  - **Provides free telephone and on-line support of software and hardware**
  - **No annual software fees**

- **Backed by a Company with over 25-Years of Industry Experience**
  - **We are a forward thinking company that utilizes the latest in technology**
  - **Products are developed with a very long life cycle in mind**
  - **New product generations provide backward compatibility with older generations**
  - **Custom Software and Hardware can be developed to Meet Special Architectural and Engineering Requirements.**

HARDING

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