



# MicroComm



## DIGITAL INTERCOM SYSTEMS



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**MicroComm DXI and 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.**

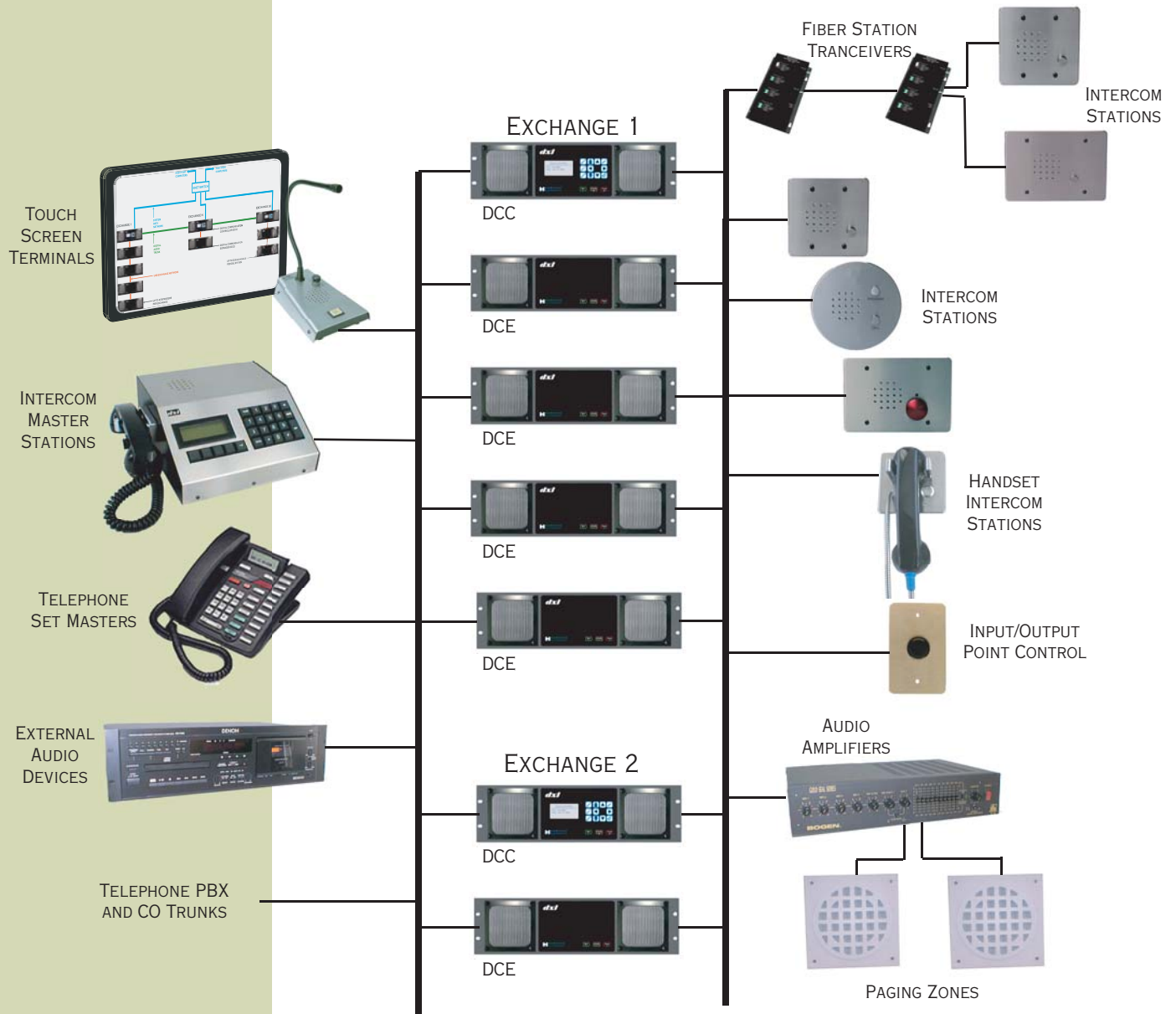
**MicroComm systems are reliable and require low maintenance. Digital switching eliminates the use of relays and their corresponding reliability issues. MicroComm systems are software configurable, making implementation of changes or additions straight forward. Extensive diagnostics provide you with 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 lightning.**

**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

The MicroComm DXL digital intercom system is designed to be cost effective for applications with widely distributed architectures and those of a smaller scale.



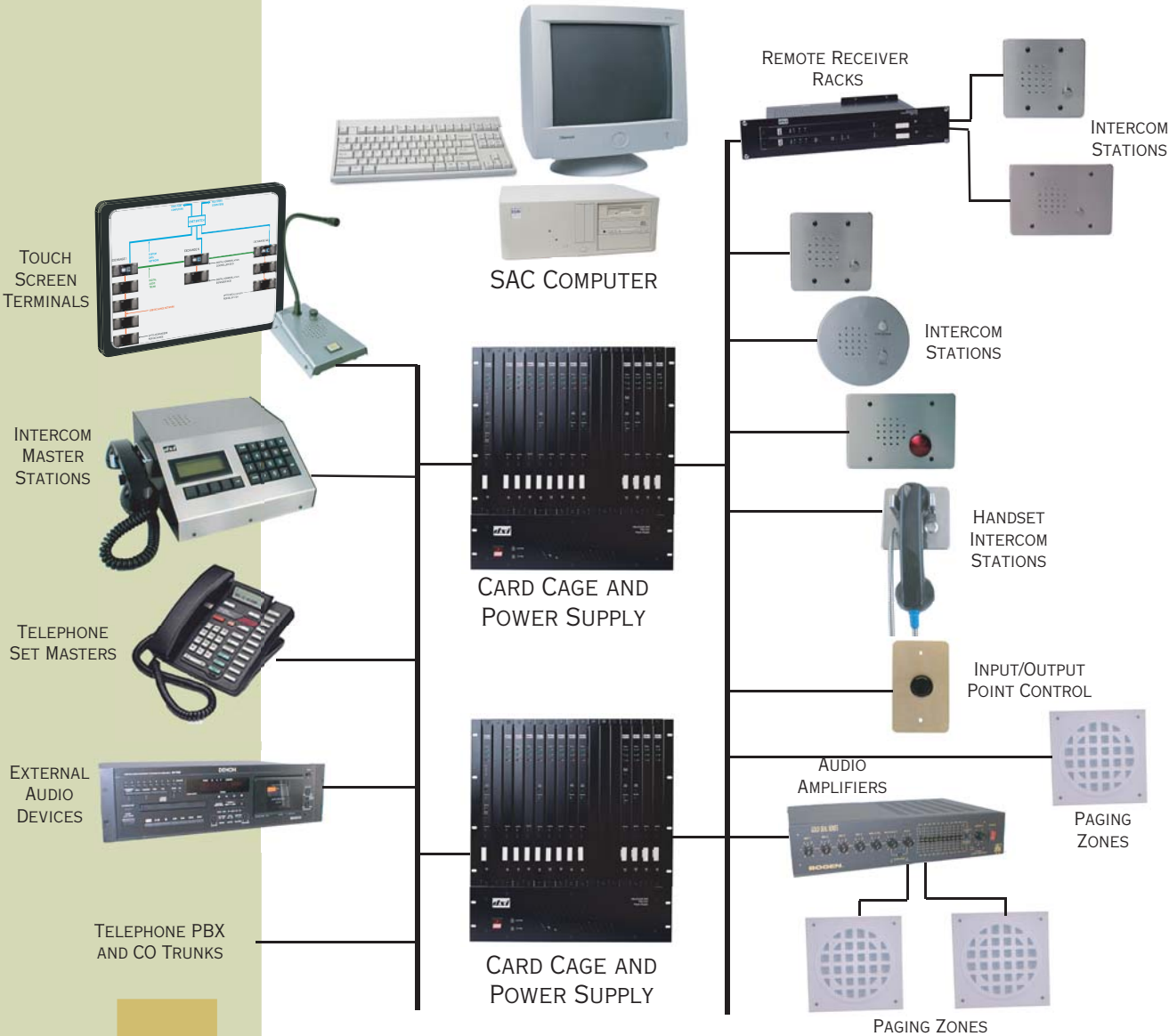
## DXL SYSTEM CAPACITIES

AUDIO OUTPUTS	PER DCC/DCE	PER EXCHANGE	PER SYSTEM
MASTER/TELEPHONES	2	10	320
INTERCOM STATIONS	32	160	5120
FULL DUPLEX HANDSETS	16	80	2560
AUDIO INPUTS	2	10	320
AUDIO OUTPUTS	2	10	320

\*NOTE: STATED CAPACITIES ARE THE MAXIMUMS FOR EACH TYPE. DEVICE CAPACITIES FOR INTERCOM STATIONS AND FULL DUPLEX HANDSETS ARE MUTUALLY EXCLUSIVE.

# MICROCOMM DXI

The MicroComm DXI digital intercom system is designed for large facilities, and is an excellent choice where a large number of field wires from intercom stations and other devices are terminated in a central equipment room.



## DXI SYSTEM CAPACITIES

FUNCTION	PER CARD CAGE	PER EXCHANGE	PER SYSTEM
SAC COMPUTERS (REDUNDANT)	N/A	1 (2)	20 (40)
CARD CAGES	N/A	10	200
CARD SLOTS	17	170	3400
AUDIO CONTROL CARDS (REDUNDANT)	1 (2)	10 (20)	200 (400)
MASTER STATIONS	40	50	1000
TELEPHONE SETS	128	400	8000
FULL DUPLEX PORTS	128	1280	25600
HALF DUPLEX PORTS	256	2560	51200
CONTACT MONITOR POINTS	768	7860	65535
CONTROL OUTPUT POINTS	768	7860	65535

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

# KEY FEATURES

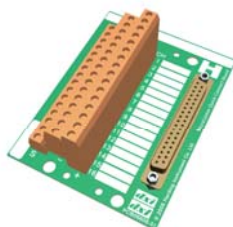


## OPERATING FEATURES

- 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 station and 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 (CO) line interfaces
- Two-way radio interfaces
- Supervised contact and station 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