



# MicroComm DXL

## DCE Digital Communication Expander

### Description

Digital Communication Expanders (DCE) are used to increase the capacity of an exchange. Up to four DCEs can be connected to each Digital Communication Controller through a “plug and play” Universal Serial Bus (USB) port. The USB carries all the audio and data communications within each exchange.

Each Digital Communication Expander can support two intercom or telephone master stations, 32 intercom stations\*, two line-level audio inputs and two line-level audio outputs including control and status.

### Features

- 2 master stations per DCE (optional)
- 32 intercom stations per DCE
- Simple, modular system architecture
- Digital audio trunks and signal processing
- Unrestricted communications within each exchange
- Supports MicroComm family master stations and telephone sets (POTS equivalent) used to provide administrative master functions
- Supports MicroComm family intercom stations and generic 25 volt intercom stations
- Optional audio level alarm detection support
- Built-in monitoring and self-test routines
- Automatically senses power supply voltage



### Specifications

Physical Form Factor      3 U rack mount  
5.22" x 19" x 16.13"

#### 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 Requirements

100-120 Vac, 60 Hz, 2.75 A max  
(Power supply is rated at 6 A max)

#### Field Connections

Input power                    AC line cord  
Master stations                DB-15  
Intercom stations              DB-37  
Intercom station switches    DB-25 (with 300 stations )  
Audio inputs/outputs        RCA phono jack  
Status inputs/outputs        Screw terminal  
USB                              1 type B, 2 type A

#### Line Outputs

Output 1.77Vrms (max) into a  
600 ohm (min) load

#### Line Inputs

Impedance > 10K

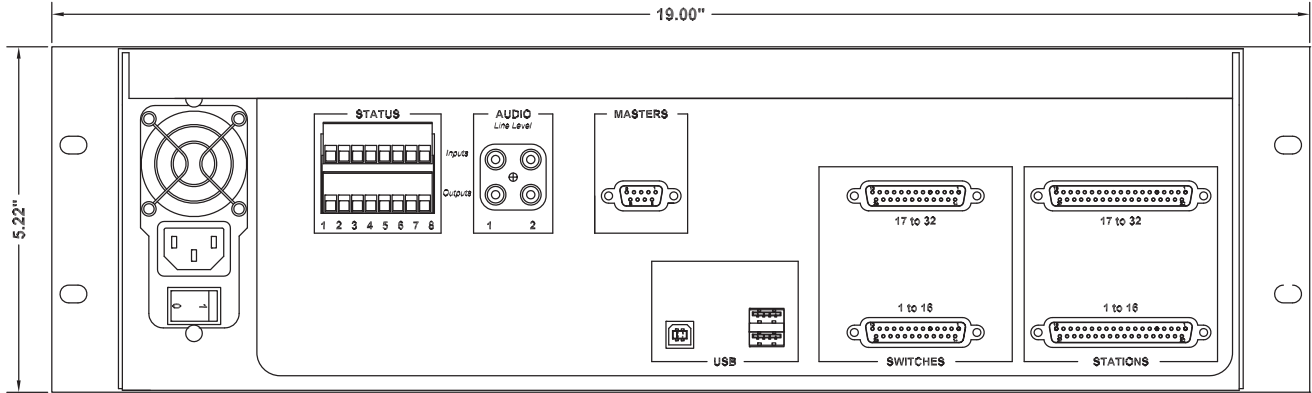
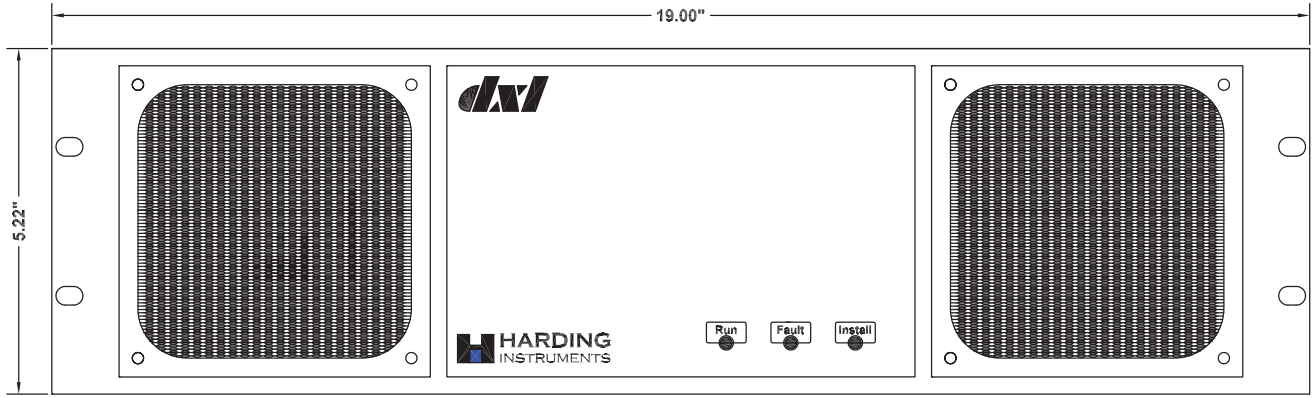
#### Cabling

Audio                            22 ga shielded twisted pair  
max 2500 ft (750 m)\*  
Switches                        (Generic 300 series stations only)  
22 ga unshielded twisted pair  
max 2500 ft (750 m)\*

#### Standards

FCC Part 15, UL, CSA

# Mechanical



## Ordering Information

DCE-XXAA-BBCC-DD

Option	XX	AA	BB	CC	DD
Series Identifier					
Security	S1				
Master Control Card					
None		00			
2 Intercom Master Stations		M4			
2 Telephone Master Stations		T4			
Combination 1 Intercom and 1 Telephone		C4			
SCC1 Card					
None			00		
SCC-300 Card			30		
SCC-400 Card			40		
SCC-401 Card			41		
SCC2 Card					
None				00	
SCC-300 Card				30	
SCC-400 Card				40	
SCC-401 Card				41	
Process Control Card					
Standard PCC					S1
Enhanced PCC (includes ALA)					E1

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