MicroComm DXL

DCC
Digital Communication Controller

Description

Digital Communication Controllers (DCC) are the heart of the MicroComm DXL system. Each DCC contains all processing, control software and configuration data to operate independently as a stand alone exchange. Exchange networking, host port control, programming, diagnostics, and maintenance are all performed through the DCCs.

Each DCC also supports two intercom or telephone master stations and 32 intercom stations*. Two line-level audio inputs and two line-level audio outputs with control and status allow connection of microphones, program sources, paging amplifiers, and logging recorders. The front panel keypad and display are used for basic system set up and diagnostics.

Up to 80 exchanges can be interconnected to form large systems.

Features

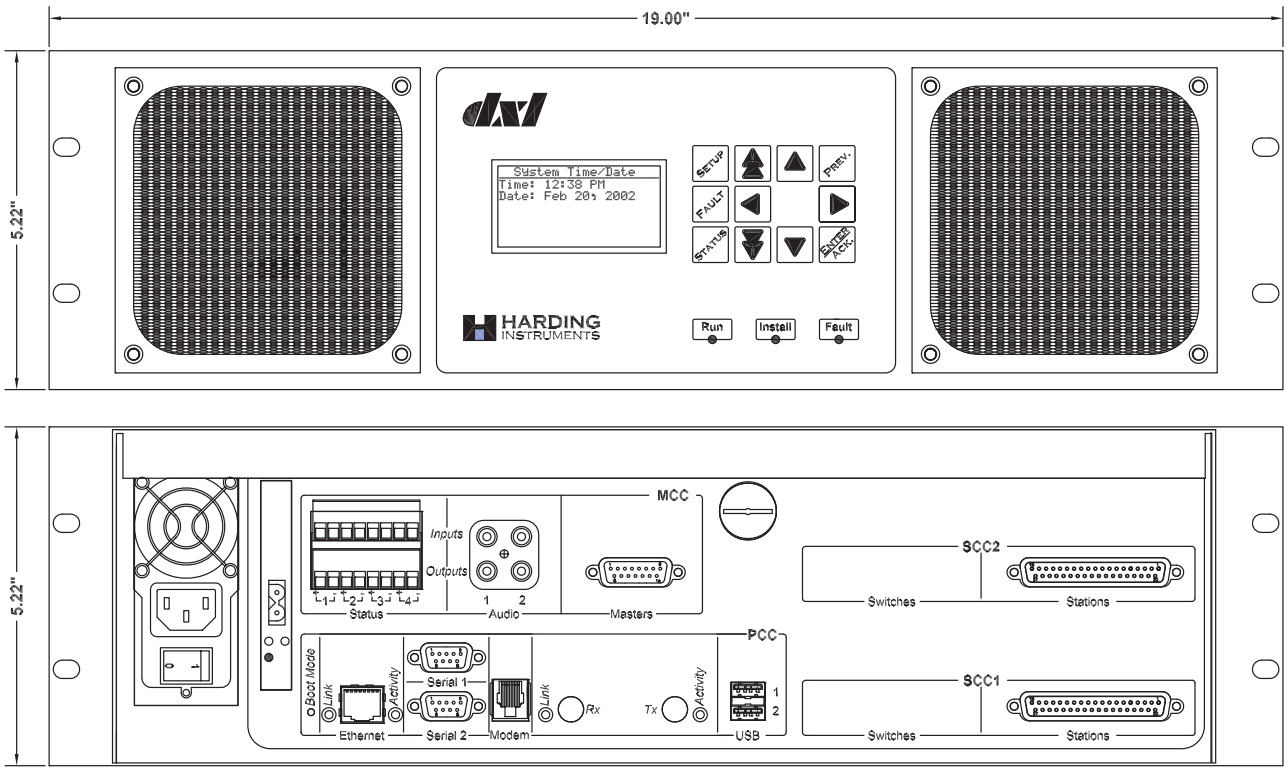
- 2 master stations per DCC
- 13 VoIP master stations per DCC
- 32 intercom stations per DCC
- 200 VoIP intercom stations per DCC
- 4 expander components (DCEs and/or TBEs) per DCC
- Connect up to 12 PZEs per DCC
- Simple, modular system architecture
- Signal processing
- Each exchange can function independently
- Exchanges can be networked to form large systems
- Unrestricted communications within each exchange
- Twenty-six channel audio trunk interconnects exchanges
- Supports MicroComm family master stations and telephone sets (POTS equivalent) used to perform administrative master functions
- Supports MicroComm family intercom stations as well as 25 volt generic stations
- Full touch screen and graphic panel master control
- Supports MicroComm Discrete Input/Output modules
- 64 x 128 pixel graphics display
- Twelve button keypad with menu driven interface
- Optional audio level alarm detection support
- Built-in monitoring and self-test routines
- Compatible with120/240 Vac and 50/60 Hz

Specifications

Physical Form Factor	3 U rack mount 5.22" x 19" x 16.13" (13.3 x 48.3 x 41.0 mm)
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 series stations)
Audio inputs/outputs	RCA phono jack
Status inputs/outputs	Screw terminals
Modem	RJ-11
Ethernet	RJ-45
Audio Trunk	DB-9 or Fiber Optic
USB	2 type A
Serial outputs	2 DB-9
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)*
Fiber (Audio Trunk)	2 fibers - 62.5/125 µm multimode ST connectors, 10 dB power budget, 820 nm wavelength
Standards	FCC Part 15, UL, CSA

*Wiring from an exchange to the outside of a building requires adequate lightning protection.

Mechanical



Ordering Information

DCC-XXAA-BBCC-DDEE-FFGG

Option	XX	AA	BB	CC	DD	EE	FF	GG
Series Identifier								
Security	S1							
Master Control Card								
None		00						
2 Intercom Masters		M4						
2 Telephone Masters		T4						
Combination 1 Intercom and 1 Telephone		C4						
SCC1 Cards								
None			00					
SCC-300 Card			30					
SCC-400 Card			40					
SCC-401 Card			41					
SCC2 Cards								
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			
Audio Trunk Option								
None						00		
Copper Audio Trunk						CU		
Fiber Optic Audio Trunk						FO		
Internal Modem								
Internal Modem							MD	
PCI Card Slot Device								
None								00
LonWorks Card								LW
VoIP Card								IP

HARDING

9564 Yellowhead Trail NW
Edmonton, AB T5G OW4
sales@harding.ca

Tel 780.462.7100
Fax 780.450.8396
www.harding.ca

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