

Appendix A: Specifications

This appendix contains the VX4469A specifications. All specifications are warranted unless they are designated *typical*. Typical characteristics describe typical or average performance and provide useful reference information.

Table A-1: Specifications

Characteristic	Description
Number of Terminals	One standard; expandable to three.
Terminal IC and SIMs	Each terminal uses Boeing-designed VLSI terminal IC and serial interface modules.
Data Bus Coupling	Each terminal transmits and receives through a standard user-supplied Current Mode Coupler. External power to the CMC is not required for operation.
Operating Mode	Periodic and aperiodic.
Transmit Schedule Modes	Block, Independent, Alternate. Determined by contents of the XPP.
Multiple Terminal Emulation	Multiple terminal emulation using a single terminal and programming individual CID for each wordstring. Multiple terminal emulation using separate terminals and terminal gap timers.
Timers	Programmable. Time Interval, Terminal Gap, and Synch Gap.
Memory Allocation	Supports maximum addressable memory space for the RPP, MPP, XPP, and shared memory.
Buffer and Program Memory	256 Kbytes.
Power Requirements	All required DC power is provided by the internal power supply in the mainframe.
Voltage	+5 Volt supply: +4.75 VDC to +5.25 VDC. +24 Volt supply: +23.5 VDC to +24.5 VDC. -24 Volt supply: -23.5 VDC to -24.5 VDC.
Replacement Fuses	+5 V: Littlefuse P/N 273004. ± 24 V: Littlefuse P/N 273001.
Cooling	Provided by the fan in the VXIbus mainframe. Less than 10° C temperature rise with 1.2 liters/sec of air at a pressure drop of 0.03 mm of H ₂ O.
Temperature	0° C to +50° C, operating. -40° C to +85° C, storage.

Table A-1: Specifications (Cont.)

Characteristic	Description
Humidity	Less than 95% R.H. non-condensing, 0° C to +30° C. Less than 75% R.H. non-condensing, +31° C to +40° C. Less than 45% R.H. non-condensing, +41° C to +50° C.
Radiated Emissions	Complies with VXIbus Specification.
Conducted Emissions	Complies with VXIbus Specification.
Module Envelope Dimensions	VXI C size. 262 mm × 353 mm × 30.5 mm (10.3 in × 13.9 in × 1.2 in)
Dimensions, Shipping	When ordered alone, the module's shipping dimensions are: 406 mm × 305 mm × 102 mm. (16 in × 12 in × 4 in).
Weight	1.57 kg. (3.5 lbs.)
Weight, Shipping	When ordered alone, the module's shipping weight is: 2.02 kg. (4.5 lbs.)
Mounting Position	Any orientation.
Mounting Location	Installs in an instrument module slot (slots 1–12) of a C or D size VXIbus mainframe. (Refer to D size mainframe manual for information on required adapters.)
Front Panel Signal Connectors	DB25S (SIM I/O). DB44P (Data Port). Refer to Appendix B for pinouts.
Recommended Cable or Connector	VX1782P for the SIM I/O connector. VX1785S for the data port connector.
Equipment Supplied	One VX4469A ARINC 629 Module. One User Manual.
Options	VX4469A-01: Adds one additional terminal. VX4469A-02: Adds two additional terminals.
Software Revision	V1.0