

I/A Series® Hardware Communications Processor 10



The Communications Processor 10 is packaged as a non-expandable single width X-Module which connects to the Mounting Structure Bus and accesses the Nodebus. Peripheral connections are made via cable connectors secured to the top or bottom of the mounting structure that houses the communications processor. The processor hardware architecture consists of the following:

- Processor
- Dynamic RAM Memory
- Nodebus Interface
- Four RS-232-C Interface I/O Ports

FUNCTIONAL SPECIFICATIONS**Processor Type**

80C86 Microprocessor

Memory

32K byte EEPROM; 896K byte parity DRAM

Protocol Capability

Asynchronous 5 to 8 bit characters; odd, even or no parity; 1 or 2 stop bits

Ports

Four RS-232-C

Channel Performance

Four asynchronous I/O ports up to 9.6K bits/second, or one synchronous I/O port up to 64K bits/second

Intra-System Communication

Redundant Nodebus

Power Requirements

INPUT VOLTAGE (REDUNDANT)

39 V dc (nominal)

CONSUMPTION

15 W (maximum)

Isolation

All four channels of the RS-232-C are isolated from the system power source. All signals for the RS-232-C are isolated for 500 V.

Internal Diagnostics

Self-checking performed at power-up. Runtime checks and watchdog timer function performed during operation.

ENVIRONMENTAL SPECIFICATIONS (a)**Operating**

TEMPERATURE

0 to 60°C (32 to 140°F)

RELATIVE HUMIDITY

5 to 95% (Noncondensing)

ALTITUDE

-300 to +3,000 m (-1,000 to +10,000 ft)

RELATIVE HUMIDITY

5 to 95% (Noncondensing)

ALTITUDE

-300 to +12,000 m (-1,000 to +40,000 ft)

Contamination

Class G3 (Harsh) as defined in ISA Standard, S71.04

Storage

TEMPERATURE

-40 to +70°C (-40 to +158°F)

(a) The environmental limits of this module may be enhanced by the type of enclosure containing the module. [Refer to the applicable Product Specification Sheet (PSS) which describes the specific type of enclosure that is to be used.]

PHYSICAL SPECIFICATIONS**Mounting**

May be placed in any system mounting structure.

Indicators

Red and green light-emitting diodes (LEDs) indicate diagnostic status

Mass (Maximum)

2.2 kg (4.9 lb)

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