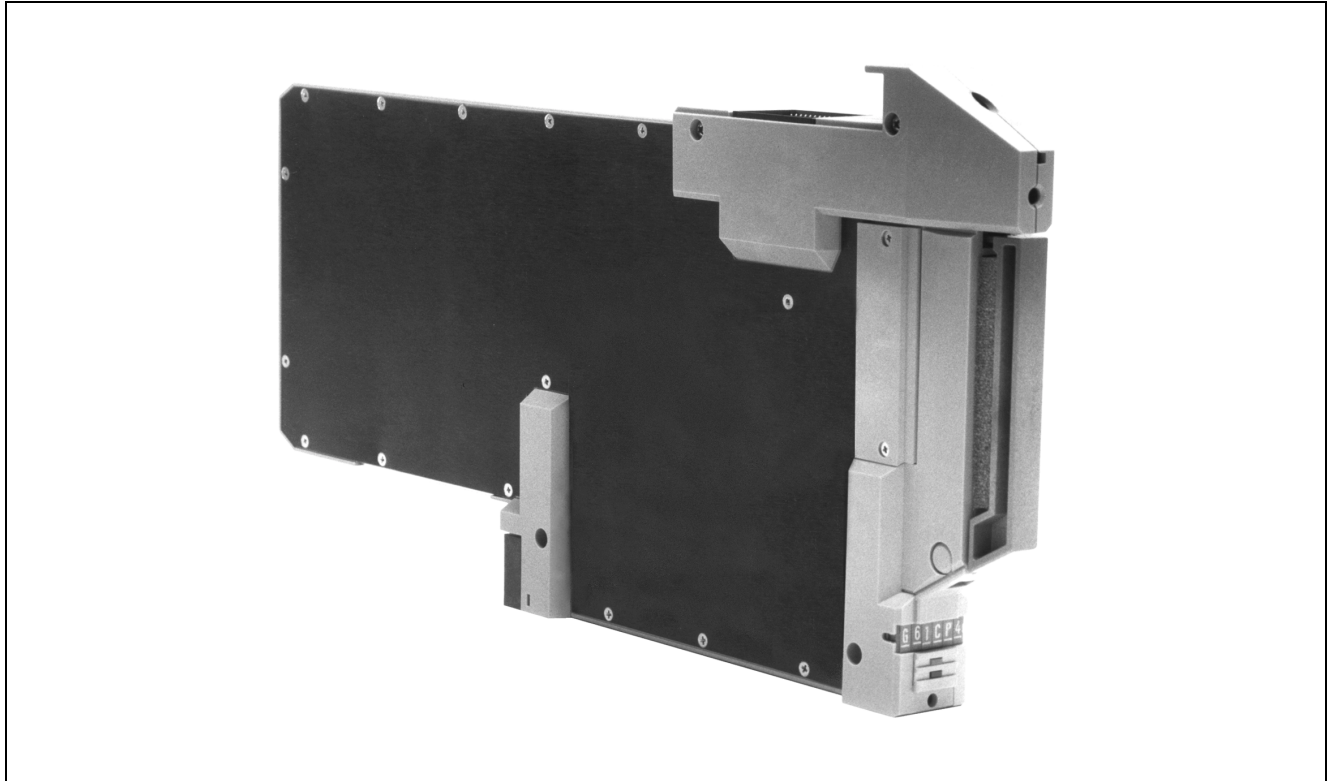


I/A Series® Hardware Integrator 30, Style B



The Integrator 30, Style B is the foundation for various Intelligent device interfaces, and for computer and information network connections. It is packaged as a single width Z-Module that 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 Integrator 30.

The Integrator 30 hardware architecture consists of the following:

- 486DX5 with built-in numeric processors and 80186EC processor for I/O communication
- Dynamic RAM with error correction
- Nodebus interface
- Two interface I/O ports compatible with EIA RS-423/RS-232-C.

As this unit is the base hardware for multiple products, the number of supported ports is determined by the product on which it is used.

FUNCTIONAL SPECIFICATIONS

Processor Type

486DX5 with built-in numeric processors and
80186EC processor for I/O communication

Memory

64 KB EEPROM; 8 MB parity DRAM for 486DX5 with
error correction; 512 KB parity dual-ported DRAM for
486DX5 and 80186EC microprocessors

Protocol Capability

Synchronous or asynchronous 5- to 8-bit characters;
odd, even or no parity; 1 or 2 stop bits.

I/O Ports

Two interface I/O ports compatible with
EIA RS-423/RS-232-C (synchronous or
asynchronous)

Channel Performance

Synchronous or asynchronous I/O port at
100 K bits/second maximum

Intra-System Communication

Redundant Nodebus

Power Requirements

INPUT VOLTAGE (REDUNDANT)

24 V dc (nominal)

CONSUMPTION

15 W (maximum)

Isolation

The I/O port channel is isolated from the system
power source. All signals for this channel are isolated
for 500 V.

Internal Diagnostics

Self-checking is performed at power-up. Run-time
checks and watchdog timer function are performed
during operation.

ENVIRONMENTAL SPECIFICATIONS(a)

Operating Temperature

0 to 60°C (32 to 140°F)

Storage Temperature

-40 to +85°C (-40 to +185°F)

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

(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

Mass (Maximum)

1.2 kg (2.7 lb)

Indicators

Red and green LEDs indicate diagnostic status.

Mounting

May be placed in most system mounting structures

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