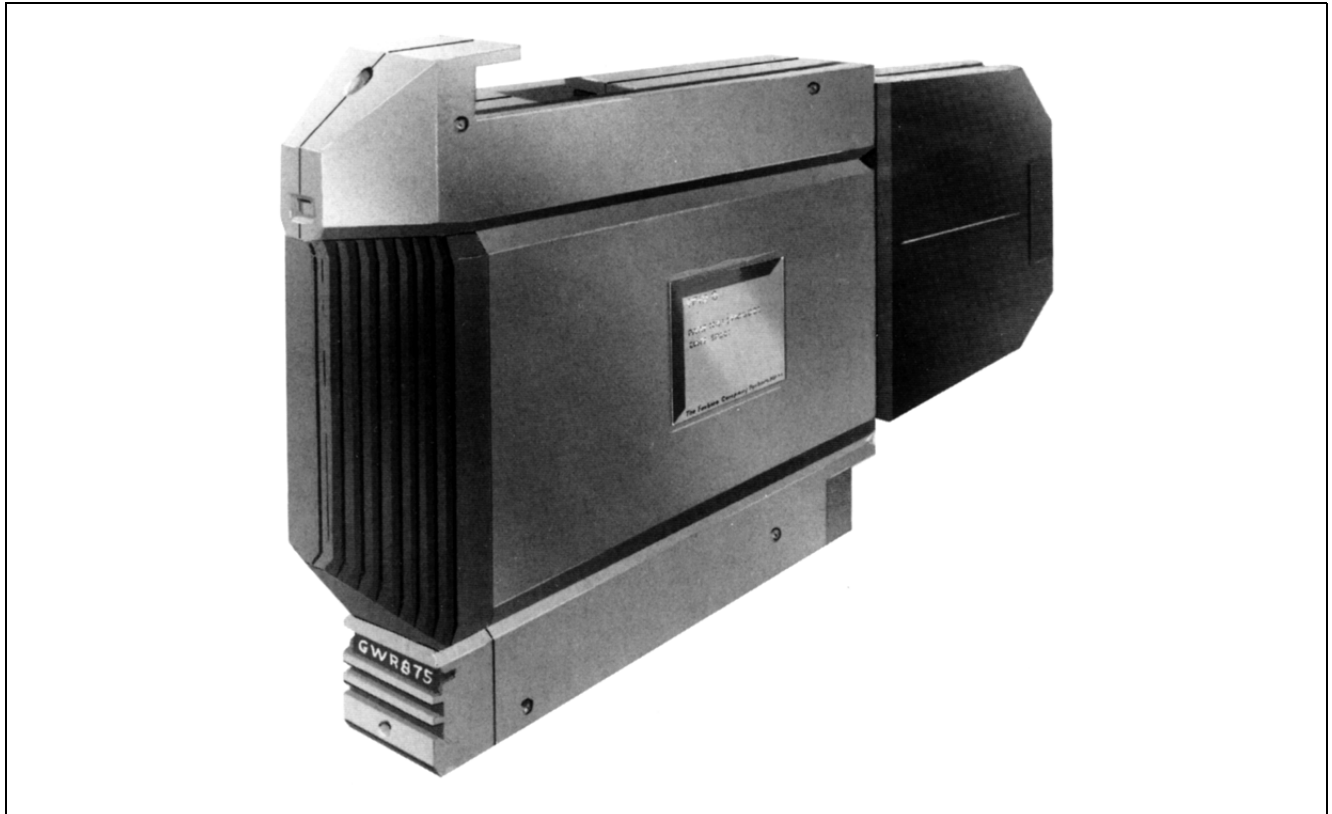


I/A Series® Hardware

Allen-Bradley Data Highway Gateway



The Allen-Bradley Data Highway is a station on the I/A Series System network which allows integration of data from Allen-Bradley Programmable Logic Controllers (PLC's) into I/A Series data bases via Allen-Bradley Data Highway Communications Adapters.

The Gateway is packaged as a non-expandable single with X-Module which connects to the Mounting Structure Bus while accessing the Nodebus. Peripheral connections are made via cable connectors secured to the top or bottom of the mounting structure that houses the gateway processor.

The processor hardware architecture of the Gateway consists of the following:

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

FUNCTIONAL SPECIFICATIONS**Processor Type**

80C86 Microprocessor with 8087 Co-processor

Memory

32 K byte EEPROM; 896K byte parity DRAM

Port

One RS-232-C port

Channel Performance

Asynchronous I/O port at 9600 bits/second

Intra-System Communication

Redundant Nodebus

Power Requirements

INPUT VOLTAGE (REDUNDANT)

24 V, ac or dc (nominal)

CONSUMPTION

14.45 W (maximum), 13.23 W (average)

Isolation

The RS-232-C channel is 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° (32 to 140°F)

RELATIVE HUMIDITY

5 to 95% (Noncondensing)

ALTITUDE

-300 to +3000 m (-1000 to +10 000 ft)

Storage

TEMPERATURE

-40 to +70°C, (-40 to +158°F)

RELATIVE HUMIDITY

5 to 95% (noncondensing)

ALTITUDE

-300 to +12 000 m (-1000 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**Mounting**

May be placed in any system mounting structure

Mass (Maximum)

2.2kg (4.9 lb)

Indicators

Red and green light-emitting diodes (LED's) indicate diagnostic status.

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