

I/A Series[®] Hardware Carrierband LAN Interface



The Carrierband LAN Interface is an I/A Series Station which provides a communication interface between the Carrierband LAN and the I/A Series Nodebus. Packaged as an X module for installation in I/A Series enclosures, the Carrierband LAN Interface connects to the Carrierband LAN trunk cable by means of one or two drop cables.

The Carrierband LAN Interface is optionally fault tolerant. In this configuration, it is installed adjacent to another Carrierband LAN interface that is connected to the same redundant pair of LAN trunk cables.

One Carrierband LAN Interface occupies two mounting structure slots, while a fault-tolerant pair occupies four adjacent slots.

CARRIERBAND LAN FUNCTIONAL SPECIFICATIONS**Bus Type**

Carrierband network conforming to IEEE 802.4 token passing standard

Data Transfer Rate

5 megabits per second

Medium

22 mm (0.89 in) CATV, or RG-11 type with foam dielectric

Characteristic Impedance

75 ohms

Number of Nodes

The allowable number of nodes depends on the type of cable, number of passive taps, type of passive taps, total cabling distance, and software address limit. Refer to Foxboro for additional information.

Drop Cables**TYPE**

RG-6 type

LENGTHS

15 m (50 ft) or 30 m (100 ft)

CARRIERBAND LAN INTERFACE FUNCTIONAL SPECIFICATIONS

(FOR NON-FAULT-TOLERANT VERSION, EXCEPT AS OTHERWISE NOTED)

Power Requirements**INPUT VOLTAGE RANGE (REDUNDANT VOLTAGE)**

26 to 42 V dc

CONSUMPTION

26.6 W

Indicators

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

Internal Diagnostics

Self-checking performed at power-up. Runtime checks and watchdog timer function performed during operation. In the fault-tolerant Carrierband LAN Interface, upon detection of an error, both modules run internal self-diagnostic tests to determine which module is defective.

CARRIERBAND LAN INTERFACE 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)

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)

Environmental Contamination Level

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

(a) The environmental ranges can be extended by the type of Enclosure containing the module. [Refer to applicable Product Specification Sheet (PSS) which describes the specific Enclosure that is to be used.]

CARRIERBAND LAN INTEFFACE PHYSICAL SPECIFICATIONS

(FOR NON-FAULT-TOLERANT VERSION, EXCEPT AS OTHERWISE NOTED)

Configuration

Double-width X module. The fault-tolerant version consists of two double-width X modules.

Mounting

May be placed in any mounting structure slot. In the fault-tolerant version, the two double-width modules must be mounted in adjacent mounting structure slots.

Mass (Maximum)

4.4 kg (9.8 lb)

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