

## **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 a Z-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 one mounting structure slot, while a fault-tolerant pair occupies two adjacent slots.

Six LEDs mounted behind the nose cone indicate network activity as follows: sending to the LAN (A or B), receiving from the LAN (A or B), or error in transmission to or from the LAN (A or B).

**CARRIERBAND LAN INTERFACE FUNCTIONAL SPECIFICATIONS**

(For non-fault-tolerant version, except as otherwise noted.)

**Power Requirement**

INPUT VOLTAGE RANGE (REDUNDANT VOLTAGE)

26 to 42 V dc

CONSUMPTION

15.5 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.

**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 (-1,000 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.)

**PHYSICAL SPECIFICATIONS**

(For non-fault-tolerant version, except as otherwise noted.)

**Configuration**

Single-width Z-Module. The fault-tolerant version consists of two single-width Z-Modules.

**Mass (Maximum)**

1.2 kg (2.7 lb)

**Mounting**

May be placed in any mounting structure slot. In the fault-tolerant version, the two single-width modules must be mounted in adjacent mounting structure 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. Contact Foxboro for additional information.

**Drop Cables**

TYPE

RG-6 type

LENGTHS

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

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