

## I/A Series A<sup>2</sup>™ Hardware

### Redundant Control Network Interface (RCNI)



The Redundant Control Network Interface (RCNI) module provides interfacing of an I/A Series® workstation to the 100 MB I/A Series redundant Control Network. This station can be either:

- Windows® XP (or later) based workstation
- Solaris® 8 (or later) based workstation

Transmission of data between the Redundant Control Network Interface and the I/A Series workstation takes place via a single 10/100Base-T CAT5® STP (twisted-pair) cable. The RCNI connects to the Redundant Control Network via a redundant pair of multi-mode 62.5/125 micron fiber optic cables with MT-RJ connectors.

For maximum security, the RCNI allows the I/A Series workstation to switch between the two 100 MB Ethernet Redundant Control Network cables. The switching is effected via commands sent to the RCNI by the external station over an RS-423 control line which is integrated into the single CAT5 STP cable connecting the RCNI to the workstation. This control line is also used for ancillary functions such as verifying the status of the Redundant Control Network transceivers and reading the RCNI module identifiers (letterbugs).

**FUNCTIONAL SPECIFICATIONS**

**Cabling Workstation to RCNI**

CABLE TYPE  
Category 5 STP, 100Base-T (shielded twisted-pair)  
(ref. IEEE 802.3) - carries both signal and control  
information  
MAXIMUM CABLING DISTANCE  
100 m (330 ft)

**Power Requirements**

INPUT VOLTAGE  
120 or 240 V ac  
CONSUMPTION (HEAT DISSIPATION)  
8 W, maximum

**Cabling RCNI to Control Network**

CABLE TYPE  
Multi-mode 62.5/125 micron fiber with MT-RJ  
connectors  
MAXIMUM CABLING DISTANCE  
2 km

**ENVIRONMENTAL SPECIFICATIONS**

**Operating**

TEMPERATURE  
0 to 40°C (32 to 104°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)

**PHYSICAL SPECIFICATIONS**

**Configuration**

Width 132 mm (5.2 in)  
Height 97 mm (3.8 in)  
Depth 125 mm (4.9 in)

**Mounting**

DIN rail or tabletop.

**Mass (Maximum)**

1.1 kg (2.6 lb)

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