

I/A Series[®] Hardware Field Automation Subsystem Micro-I/A[™] 486-25, 4 MB Processor



DESCRIPTION

The Micro-I/A 486-25, 4 MB Processor resides in the Micro-I/A Station and incorporates all of the functionality needed to execute operational instructions received from the supporting host (I/A Series workstation) for the Micro-I/A Station.

PACKAGING

The processor card is packaged in the same case size as Personal Computer Memory Card Industry Association (PCMCIA) technology (sometimes referred to as PC Card technology), but utilizes a full system bus connector. The packaging therefore is characterized by:

- Small size
- Minimal power consumption
- · Easy installation and removal

This version of the processor is used in remotely booted Micro-I/A applications, such as FoxBlock Integrated Control Software. It performs all of the processing required to execute the applicable software and fully supports the following Micro-I/A interface cards:

- Single Cable Ethernet Interface
- I/A Series Fieldbus Interface
- Allen-Bradley Remote I/O Interface
- GE Fanuc Direct Connect I/O Interface

PROCESSOR FEATURES

This processor card utilizes a 486SL CPU operating at a 25 MHz internal clock speed and includes 4 MB of expandable Random Access Memory (RAM), Read Only Memory (ROM), Basic Input/Output System (BIOS), math co-processor, and flash.

CARD CONSTRUCTION

The processor card is a sealed unit; in the event of a card failure, it is easily replaced with a new one.

CARD INSTALLATION/REPLACEMENT

Installation of the 486-25, 4 MB Processor card involves removing the front cover on the Micro-I/A Station and inserting the card into the dedicated connector on the Head Section. However, processor cards are customarily factory installed prior to shipment.

Removal and replacement of the processor card can be performed without disturbing any of the interface cards in the Head Section, Expander Section (when applicable) or associated external user terminations.



FUNCTIONAL SPECIFICATIONS

Electromagnetic Compatibility

The processor is tested for electromagnetic compatibility as a component of the Micro-I/A Station. Refer to PSS 21H-6B4 B4.

Power

INPUT VOLTAGE 3.3 V dc; 5 V dc INPUT CURRENT 390 mA; 140 mA POWER CONSUMPTION 2.0 W (maximum)

Processor

TYPE 80486 with Math Co-Processor **CLOCK SPEED** 25 MHz

Memory

RAM 4 MB (expandable) ROM 256 KB Flash BIOS PC-AT compatible

ENVIRONMENTAL SPECIFICATIONS

Ambient Temperature

OPERATING 0 to 50°C (32 to 122°F) STORAGE -20 to +65°C (-4 to +149°F)

Relative Humidity

OPERATING 5 to 95% (Noncondensing) STORAGE 5 to 95% (Noncondensing)

Mechanical **VIBRATION (OPERATING)**

0.75 g (5 to 200 Hz)

CORROSION AND CONTAMINATION Per ISA Standard S71.04, Class G1

Circuit Board Flammability Effects 94V1

ASTM D 999-75

PHYSICAL SPECIFICATIONS

Card Width

54 mm (2.126 in)

Card Length 85.6 mm (3.370 in)

Card Depth 550 mm (2.16 in)

The Foxboro Company

33 Commercial Street Foxboro, Massachusetts 02035-2099 United States of America http://www.foxboro.com Inside U.S.: 1-508-543-8750 or 1-888-FOXBORO (1-888-369-2676) Outside U.S.: Contact your local Foxboro Representative.

Foxboro, I/A Series, and Micro-I/A are registered trademarks of The Foxboro Company.

Copyright 1997-2000 by The Foxboro Company All rights reserved

MB 021

Card Mass 65 grams (0.14 lb)

Card Type Type II. Card is made to PCMCIA specifications.

Chemical

Transportation