

IT-700

Integration Platform

A member of the American Auto-Matrix Integra suite of java-based controller/server products, the IT-700 is specifically designed for commercial applications and offers high-performance and seamless integration capabilities for common communication protocols and legacy systems, creating a complete real-time supervisory network.

The IT-700 includes a growing library of communication drivers as well as a browser-based Graphical User Interface that permits users to manage and control fundamental systems over the Internet and deliver real-time information without the need for dedicated workstations and client software.

FEATURES

- Integrates seamlessly with BACnet, American Auto-Matrix PUP, PHP protocols with appropriate drivers
- Fully compatible with popular open system protocols including BACnet, LonWorks, Modbus and OPC with the appropriate optional drivers
- Complete high-level functionality including alarming, trending, scheduling and custom sequencing
- Powered by Niagara™ Framework®, a universal software layer that provides the means to connect many devices through a unified network appliance
- Java-based Graphical User Interface (GUI) that is accessible from any standard web browser and does not require a proprietary software plug-in
- Capable of stand-alone or networked operation to allow sharing of data between multiple Integra devices
- Rechargeable internal NIMH battery backup for short-term power fail events
- Optional serial communication ports for flexible protocol device networking
- Intuitive multi-tier user security, configurable to allow/prevent access
- Real-time control functions provided as constant streams of data from individual systems and instantaneously transformed into a common model within the Integra device
- Supports up to 2 optional communication boards



APPLICATIONS

- Ideal for remote sites, small buildings, and for control distribution throughout larger facilities
- Supports a wide range of fieldbus for connection to standalone controllers or remote I/O
- Supports data over multiple networks, the ability to manage global control configurations, and the ability to host multiple client workstations simultaneously
- Integra Supervisor software can be used to consolidate real-time building data (e.g. history, alarms, etc.) from many Integra devices into a single application

SPECIFICATIONS

PLATFORM

PowerPC 440Epx 652 Mhz processor

1 GB DDR-2 333 Mhz RAM

512 MB NAND flash memory for onboard database storage, trend storage, and system software

Real-time Clock

OPERATING SYSTEM

QNX OS

IBM j9 VM (AX 3.5) or Oracle Hotspot Java 5 VM (AX 3.6 or higher)

Niagra^{AX} 3.5 or greater

COMMUNICATIONS

Two Gigabit Ethernet ports - RJ-45 connection

One RS-232 port with DB 9 connector

One RS-485 port (up to 76.8k baud)

BATTERY BACKUP

Battery backup provided for all onboard functions

Battery is monitored and trickle-charged

Battery maintains processor operation through power failures for a pre-determined interval, and then writes all data to flash memory, shuts processor down, and maintains clock for up to one (1) year

POWER SUPPLY

Varies by region locale (sold separately)

CHASSIS & MOUNTING

Construction : Plastic, DIN rail or screw mounting, plastic cover

Cooling : Internal air convection cooling

Dimensions : 8.5 x 6.0 x 2.625 in. (215.9 x 152.4 x 68.3 mm)

ENVIRONMENT

Operating Temperature 32° to 140° F (0° to 60° C)

Operating Temperature 32° to 122° F (0° to 50° C) w/ optional battery

Storage Temperature 32° to 158° F (0° to 70° C)

Relative Humidity 5% to 95% non-condensing

AGENCY LISTINGS

UL 916

C-UL listed to Canadian Standards Association (CSA)

C22.2 No. 205-M1983 "Signal Equipment"

CE

FCC part 15 Class A

RoHS Compliant

BACnet B-BC listed when optional BACnet driver is used

ACCESSORIES

NBP-LON 78 kbps FTT 10 A LON Adapter

NBP-2X-485 Dual-Port RS-485 Option Card

NBP-232 Single-Port RS-232 Option Card

NPB-BATT Replacement Battery Assembly

IT-PWR-UN 90-263 VAC - 50/60 Hz Auto-Sensing Power Supply



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