AMERICAN AUTO-MATRIX®
A Cylon Energy Inc. Company

IT-8000

IT-8000 Niagara 4 Network Controller / Webserver

The IT-8000 is a compact, embedded IoT (Internet of Things) controller and server platform for connecting multiple and diverse devices and sub-systems. With Internet connectivity and Web-serving capability, the IT-8000 controller provides integrated control, supervision, data logging, alarming, scheduling and network management. It streams data and rich graphical displays to a standard Web browser via an Ethernet or wireless LAN, or remotely over the Internet.

The licensing model for the IT-8000 controller is simplified and features standard drivers along with optional I/O and field bus expansion modules for ultimate flexibility and expandability. The IT-8000 controller operates with Niagara 4, the latest version of the Niagara Framework®, for optimum performance. In larger facilities, multi-building applications and large-scale control system integrations, Niagara 4 Supervisors can be used with IT-8000 controllers to aggregate information, including real-time data, history and alarms, to create a single, unified application.

With simple configuration, tool-less installation, low-cost integration and high-powered performance, the IT-8000 controller is a dramatic evolution in connecting and controlling devices worldwide.

HARDWARE SPECIFICATIONS

TI AM3352: 1000MHz ARM® Cortex™-A8
1GB DDR3 SDRAM
Removable micro-SD card with 4GB flash total storage/2GB user storage
Wi-Fi (Client or WAP) IEEE802.11a/b/g/n IEEE802.11n HT20 @ 2.4GHz IEEE802.11n HT20/HT40 @ 5GHz Configurable radio (Off, WAP, or Client) WPAPSK / WPA2PSK supported
USB type A connector Back-up and restore support
(2) isolated RS-485 with selectable bias and termination
(2) 10/100MB Ethernet ports
Secure boot
24 VAC/DC power supply
Runs Niagara 4.1 and later
Real time clock
Batteryless

EXPANSION MODULES

MAXIMUM EXPANSION MODULES SUPPORTED

NPB-8000-LON : 4
NPB-8000-232 : 4
NPB-8000-2X-485 : 2

MAXIMUM IO MODULES SUPPORTED

IT-IO-16-485 : 16

I/O CONFIGURATION

MAXIMUM COMBINATIONS

EXPANSION 1	EXPANSION 2	EXPANSION 3	EXPANSION 4
RS-232 or LON	RS-232 or LON	RS-232 or LON	232 or RS-LON
(2) RS-485	RS-232 or LON	RS-232 or LON	RS-232 or LON
(2) RS-485	(2) RS-485	RS-232 or LON	
(2) RS-485	(2) RS-485		

SPECIFICATIONS

AGENCY CERTIFICATIONS

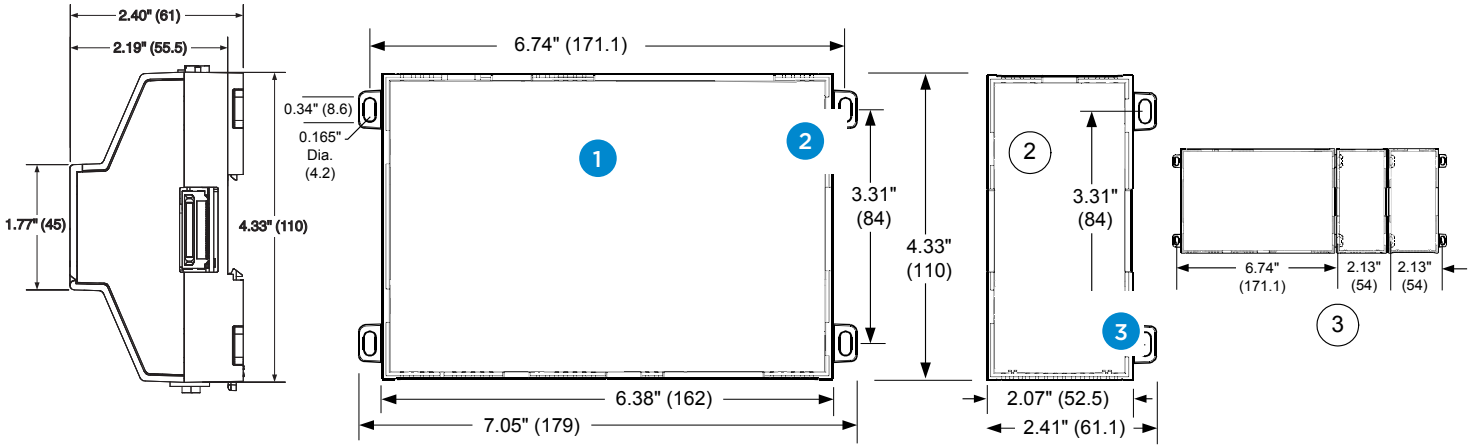
- UL 916
- CE EN 61326-1
- FCC Part 15 Subpart B, Class B | FCC Part 15 Subpart C
- C-UL Listed to Canadian Standards Association (CSA) C22.2 No. 205-M1983 "Signal Equipment"
- 1999/5/EC R&TTE Directive
- CCC | SRRC | RSS | RoHS

ENVIRONMENTAL SPECIFICATIONS

- Operating Temperature : -20 to 60°C
- Storage Temperature: -40 to 85°C
- Humidity: 5% - 95% Non-condensing
- Shipping & Vibration: ASTM D4169, Assurance Level II
- MTTF: 10 years+

MOUNTING & DIMENSIONS

1. IT-8000 controller. Allow at least 1.5" (38mm) clearance around all sides and minimum 3" (76mm) at bottom for Wi-Fi antenna
2. Expansion module. Up to four (4) may be used. See "Expansion Modules" and "I/O Configuration"
3. Distances between center tabs from one unit to another unit



Compatible with (DIN43880) enclosures

Suitable for mounting to a panel or to an EN50022 standard 35mm rail

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American Auto-Matrix
One Technology Lane
Export, PA 15632
(724) 733-2000

aam@aamatrix.com
www.aamatrix.com

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