

**DESCRIPTION**

The Integra™ is a compact integration platform, specifically designed for commercial applications, that offers seamless integration capabilities for common communications protocols and legacy systems, creating a complete real-time supervisory network. The Integra™ suite includes a growing library of communication drivers, as well as browser based Graphical User Interface, permitting users to view and control fundamental systems without the need for dedicated workstations and client software.

**FEATURES**

- Integrates seamlessly with American Auto-Matrix® PUP, PHP and BACnet® protocol products
- Fully compatible with popular open systems 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 the Niagara<sup>AX</sup> Framework®, a universal software layer that provides the means to connect many devices through a unified network appliance
- JAVA-based graphical user interface 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
- Multiple serial communication ports for flexible protocol device networking
- Embedded RISC microprocessor platform eliminates the need to maintain a separate firewall or virus scan for the device
- 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™
- Indoor wall or enclosure mounting



**SPECIFICATIONS**

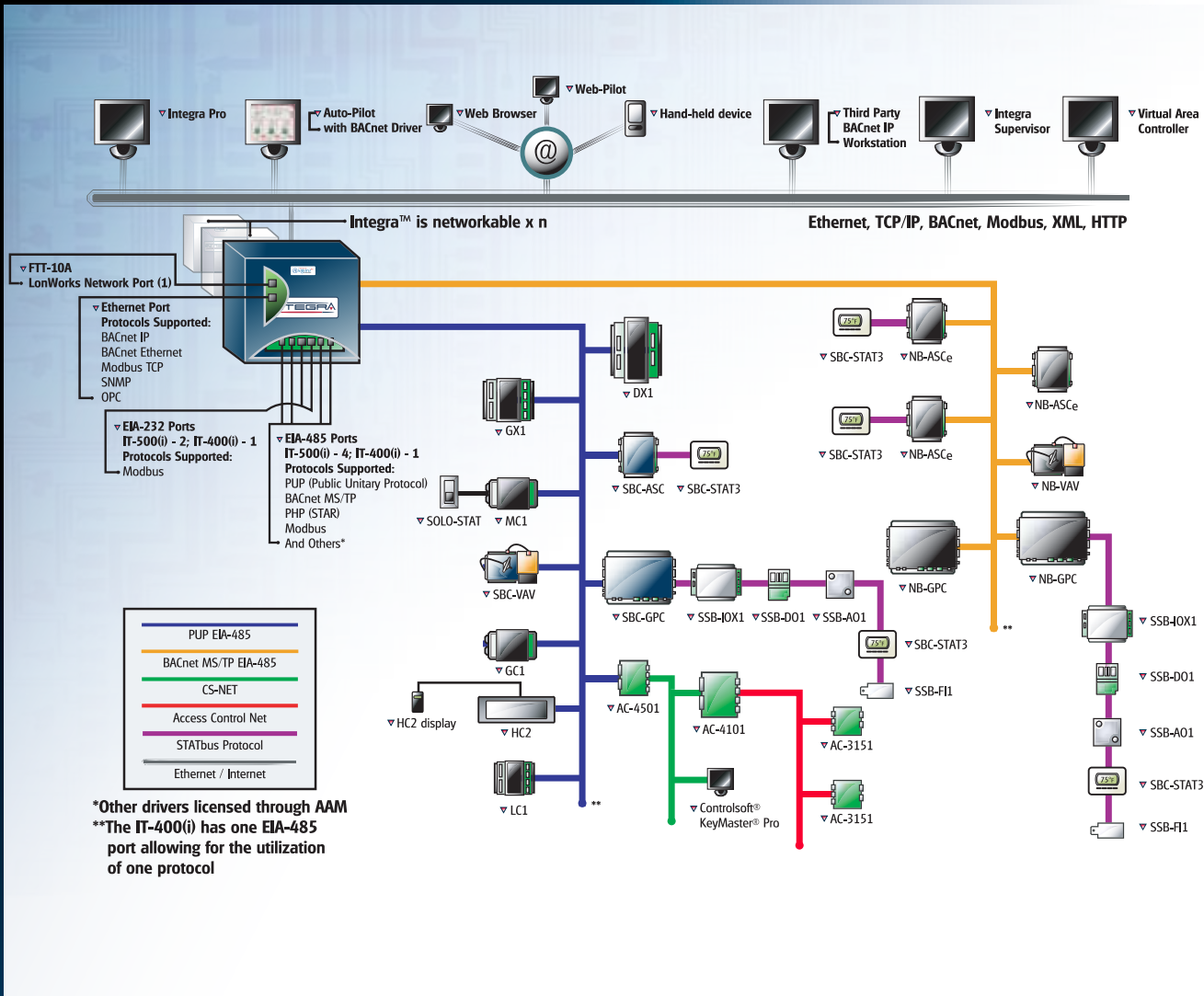
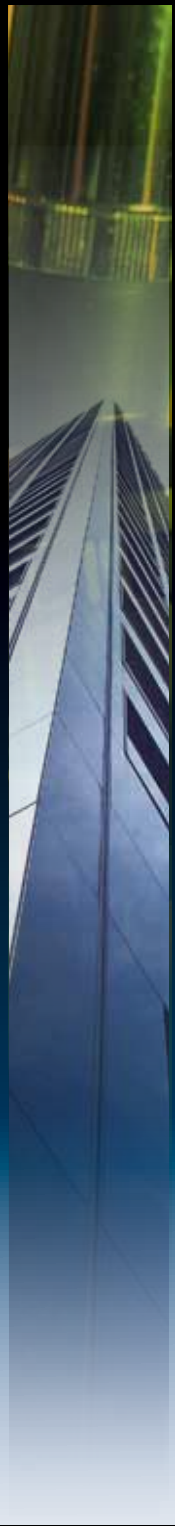
Platform - Integra™ : IT-500, IT-500-i	Operating System
<ul style="list-style-type: none"> <li>• Motorola RISC Processor @ 250MHz</li> <li>• Integra Control Engine - with direct I/O support objects</li> <li>• 256 MB Ram, 128 MB Flash for database backup</li> <li>• FCC Class "A" computing Device</li> </ul>	<ul style="list-style-type: none"> <li>• QNX® Operating System with IBM J9 JavaVirtual Machine</li> <li>• Integra™ Integration Software</li> </ul>

Communications	Battery Backup
<ul style="list-style-type: none"> <li>• One 10/100 Mb Ethernet port - RJ-45 connection</li> <li>• Two EIA-232 ports with RJ-45 connectors</li> <li>• Four EIA-485 ports (up to 76,800 baud) with Weidmuller connectors</li> <li>• One LonWorks port - FT-10 with Weidmuller connector (Driver sold separately)</li> <li>• Optional auto-dial / auto-answer 56K modem; RJ-11 connector (Uses one EIA-232 port when installed)</li> </ul>	<ul style="list-style-type: none"> <li>• Battery backup provided for all on board functions</li> <li>• Battery is monitored and trickle charged</li> <li>• Battery maintains processor operation through power failures for a pre-determined interval, then writes all data to flash memory, shuts processor down, and maintains clock for a minimum of five years</li> </ul>



**INTEGRA™**  
 IT-500, IT-500-i Integration Platform  
 AMERICAN  
**AUTO-MATRIX®**  
 SMART BUILDING SOLUTIONS®

SYSTEM ARCHITECTURE



\*Other drivers licensed through AAM  
 \*\*The IT-400(i) has one EIA-485 port allowing for the utilization of one protocol

SPECIFICATIONS - CONTINUED

Power Supply	Enclosure - Metal enclosure with hinged door
<ul style="list-style-type: none"> <li>IT-500: 120VAC, 50/60Hz</li> <li>IT-500-i: 240VAC, 50/60Hz</li> <li>25VA maximum</li> <li>Lead wires for hot/neutral (wire nut), stud for ground connection. Integra has two-screw terminal strip for AC power connections, plus a stud for ground</li> </ul>	<ul style="list-style-type: none"> <li>Intended for indoor wall mounting only</li> <li>Cooling: Internal air convection</li> <li>Dimensions: 11" wide x 14" high x 2.5" deep (2794 cm. wide x 35.56 cm. high x 6.35 cm. deep)</li> <li>Weight: Net 4 lbs. (1.814 kg.), Gross 5 lbs. (2.268 kg.)</li> </ul>
Resource Capabilities	Environment
<ul style="list-style-type: none"> <li>Maximum devices per RS-485 port = 32</li> </ul>	<ul style="list-style-type: none"> <li>Operating temperature range: 32°F to 122°F (0°C to 50°C)</li> <li>Storage temperature range: 32°F to 158°F (0°C to 70°C)</li> <li>Relative humidity range: 5% to 95%, non-condensing</li> <li>FCC part 15 Class A</li> </ul>
Agency Listings	
<ul style="list-style-type: none"> <li>UL 916</li> <li>C-UL listed to Canadian Standards Association C22.2 No. 205-M1983 "Signal Equipment"</li> <li>CE</li> <li>FCC part 15 Class A</li> </ul>	

American Auto-Matrix is a Service-Disabled Veteran-Owned Small Business / Woman-Owned Business (CCR Cage #4LL80)

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