

Java Automation System Integration Controller

- 667 MHz 440EPx Processor
- 1 GB Flash Memory
- 512 MB DDR-2 RAM; field-upgradeable to 1 GB
- Two 1 Gigabit Ethernet ports
- RS-232 and RS-485 ports
- Two USB 2.0 ports
- Two Expansion Slots for Plug-in Option Cards
- Up to 5 Field Busses Using Dual-port RS-485 Cards
- Embedded Web Server for Graphical Front End
- Optional Embedded Device Configuration Software
- Optional Software to Create Custom Animated 3D Graphics for User Interface
- Niagara Framework enables BACnet, LonWorks, oBIX, and Modbus Interoperability

ASI JASIC-700 integration controllers provide open interoperability options for ASI Controls systems supporting industry standard open protocols such as BACnet™, LonWorks™, Modbus, oBIX™, and more.

ASI Controls Java™ Automation System Integration Controllers (JASIC) include an embedded web server to provide a browser-based graphical front end for the control network. The JASIC-700 can be accessed remotely over a local Intranet or via the Internet, or via an optional GPRS Modem card. Workbench configuration software can be embedded on the device or run from a connected PC.

The JASIC-700 runs the industry standard Tridium Niagara Framework, with multiple open protocol integration options for control applications including building automation and energy management. Niagara also supports touch screen displays remotely connected to a JASIC-700. The controller comes with two Ethernet ports. ASI controllers on a BACnet-MS/TP network can be configured remotely using ASI Visual Expert software by tunneling through a JASIC-700 BACnet-IP interface.

Supports standard open protocols such as BACnet, Modbus, LonWorks (using optional card), and oBIX. Connects to Sedona Framework with an optional wireless communications card. oBIX client/server drivers are included, other protocols are enabled with optional software drivers.

A rechargeable internal battery preserves the system database during power outages and maintains the real-time clock for up to one year. Built-in recharging and monitoring support for an external 12V sealed lead-acid backup battery, for longer power fail durations. Built-in contact inputs are also available for UPS monitoring. Mounting options include DIN rail or screw tabs on unit base. Optional Web Supervisor software archives trend data off the controller, and offers a unified front end for networks incorporating multiple JASIC-700 controllers.

JASIC-700 high performance integration controllers are designed for large, complex control networks and other demanding applications.



Java Automation System Integration Controller

Base Device Specs

440 EPx PowerPC processor @667 MHz
 512MB DDR-2 RAM @333 MHz
 1 GB Serial Flash
 One electrically isolated RS-485 port
 One RS-232 port
 Two USB 2.0 ports
 Battery Backup
 Real-time clock

Power Supply

Voltage: 15 volts DC at 20 watts max.

Other

Communications: RS-485 or RS-232
 Construction: Plastic, DIN rail or screw mount chassis, plastic cover
 Cooling: Internal air convection
 Dimensions: approx. 8.5" x 6" x 2.63"
 Operating System:
 QNX Real-time OS
 Java VM: IBM J9 Java Virtual Machine

Environmental

Operating: 0° to 50°C (32°F to 122°F)
 RH: 0% to 90%, non-condensing

Certifications

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
 BTL B-BC listed if optional BACnet driver is used



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BACnet is a registered trademark of ASHRAE

LonWorks is a registered trademark of Echelon Corporation

oBIX is a trademark of OASIS

Java is a registered trademark of Sun Microsystems Inc.

Internet Explorer is a trademark of Microsoft Corporation

Firefox is a trademark of Mozilla Corporation

System Requirements

Requires Niagara Framework 3.5 or higher. Graphical user interface requires Internet Explorer™ 6.0 or later, or Firefox™ 3.0 or later.

Controller	Part #
JASIC-700 controller with Workbench software and BACnet IP+MS/TP drivers	JASIC-700

Accessories	Part #
Wall module power supply	JAWM-700
RS-232 port adapter with 9 pin Dshell connector	JACC-R232
Dual-port RS-485 adapter; electrically isolated	JACC-D485
78 Kbps FTT10 A Lon Adapter	JACC-LON
Upgrade RAM memory to 1 GB	JACC-U1GB

Software	Part #
JASIC Workbench embedded configuration software	JASIC-WRKB
JASIC Web Supervisor Small Edition	JASIC-WSSE
JAHU3D – create your own custom animated 3D AHU graphics	JGRF-AHU
JRTU3D – custom RTU	JGRF-RTU
JHP3D – custom Heat Pumps	JGRF-HPMP
JUnitary3D – custom Unitary	JGRF-UNIT
JPlant3D – custom Central Plant	JGRF-PLNT
JMaker3D – create custom AHU, RTU, Unitary, and Central Plant	JGRF-MAKR

Protocol Drivers	Part #
BACnet-IP client	JDRV-BNIP
BACnet-MS/TP client	JDRV-BNMS
BACnet-IP server	JDRV-BNSV
Modbus RTU client	JDRV-MODB
LonWorks client	JDRV-LONW

* Consult ASI Controls for additional protocol drivers

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