



				OPER	RAM-FI ASH
JACE TYPE	PROCESSOR	PORTS	OPTIONS-UPGRADES	SYSTEM	MEMORY
JACE-201	Power PC 405EP	2 – Ethernet	128 mB RAM	XNO	64 mB SDRAM
(DIN-rail mountable) (also used in Niagara Security Appliance)	(2000)	1 – RS <i>232</i> 1 – RS485 <sup>A</sup>	Optional comm. cards	(With Java VIVI)	o4 mb ilash
JACE-403-AX	Motorola RISC	1 – Ethernet	256 mB RAM / 128 mB flash	QNX	128 mB RAM
(array of NDIO devices)	(250 MHz)	1 – RS232	Auto-dial/auto-answer 56K modem	(with Java VM)	32 mB flash
(metal enclosure)		1 – RS485 1 – LON	(uses KS-Z3Z port wnen installed)		
JACE-545-AX	Motorola RISC	1 – Ethernet	256 mB RAM / 128 mB flash	QNX	128 mB RAM
(metal enclosure)	(250 MHz)	1 – RS232	Auto-dial/auto-answer 56K modem	(with Java VM)	32 mB flash
		4 – RS485 <sup>A</sup>	(uses RS-232 port when installed)		
		1 – LON			
JACE-601	Power PC 440	2 – Ethernet	256 mB DDR RAM	QNX	128 MB DDR RAM
(similar to JACE-201)	(524 MHz)	1 – USB	78 kbps LON adapter, RS-232 port	(with Java VM)	128 mB flash
(also used in Niagara		1 - RS232	adapter, Dual port RS-485 adapter		
Security Appliance)		1 – RS485 <sup>A</sup>	Up to 4 I/O modules (16-port) and		
			power module		
			Optional comm. cards		
JACE-NXS	Intel Celeron	2 – Ethernet	Web UI server option (R2)	Windows XP	512 mB RAM
(convection fin cooled)	(650 MHz)	4 – USB	40 gB hard drive	(with Java VM)	1 gB flash drive
embedded version of		1 - RS232	UPS upgrade		
Win XP)		1 – RS485 <sup>A</sup>			
		1 – LON			
200 00 00 0					

A - RS-485 → to connect to open & proprietary protocol devices



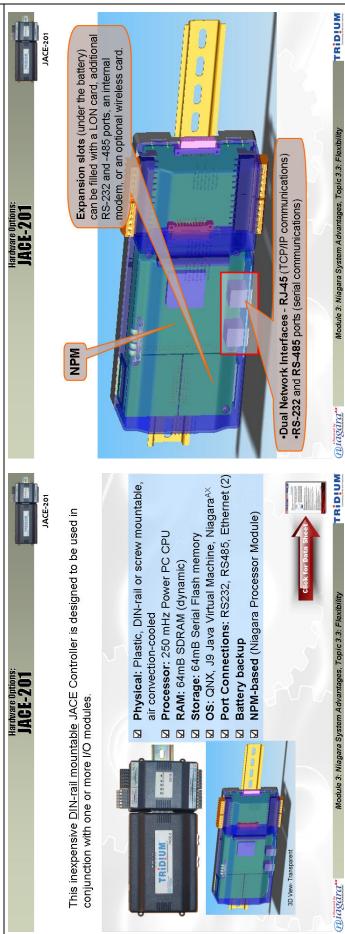
JACE TYPE	HARDWARE	CARD READERS		SUPERVISED INPUTS	RELAY OUTPUTS	TPUTS	DIGITA	DIGITAL INPUTS
Niagara	JACE-201	2		9	4			8
Security	JACE-601	2		9	4			3
JACE	READER MODULE	2		4	2			2
	I/O MODULE			8	8			2
		READER	0/1	TOTAL	TOTAL	PERSONNEL	II Z	HISTORY
	HARDWARE	MODULES	MODULES	READERS	<u>0</u>	RECORDS	3DS	RECORDS
	JACE-201	up to 7	up to 8	16	64 / 64	2,500	0	5,000
	JACE-601	up to 15	up to 15	32	120 / 120	10,000	00	50,000



### 64 mB SDRAM RAM-FLASH 64 mB flash MEMORY **OPER SYSTEM** (with Java VM) XNO **NIAGARA<sup>AX</sup> JACE EQUIPMENT OPTIONS-UPGRADES** Optional comm. cards **128 mB RAM PORTS** Ethernet 1 - RS-232 1 - RS-485 Power PC 405EP **PROCESSOR** (250MHz) JACE TYPE **JACE-201**

### Ideally suited for:

- Smaller facilities and remote sites
- Distributing control and monitoring throughout large facilities
- Supporting a wide range of field busses for connection to remote I/O and stand-alone controllers









JACE TYPE	PROCESSOR	PORTS	OPTIONS-UPGRADES	OPER SYSTEM	RAM-FLASH MEMORY
JACE-403-AX	Motorola RISC (250 MHz)	1 – Ethernet 1 – RS-232 1 – RS-485 1 – LON	Auto-dial/auto-answer 56K modem (uses RS- 232 port when installed)	QNX (with Java VM)	128 mB RAM 32 mB flash

### Ideally suited for:

- Light commercial applications
- Wall- or enclosure-mounting
- Monitoring pulse contacts from power/demand meters, analog sensors or transducers, or control energy-consuming devices

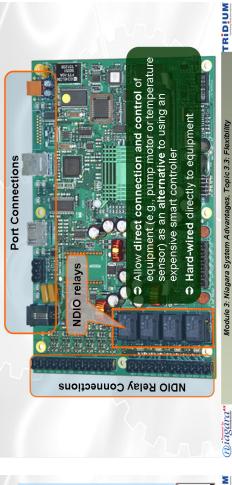
### JACE-403-AX

The JACE-403-AX is one of the true "workhorses" in the Tridium JACE controller line.

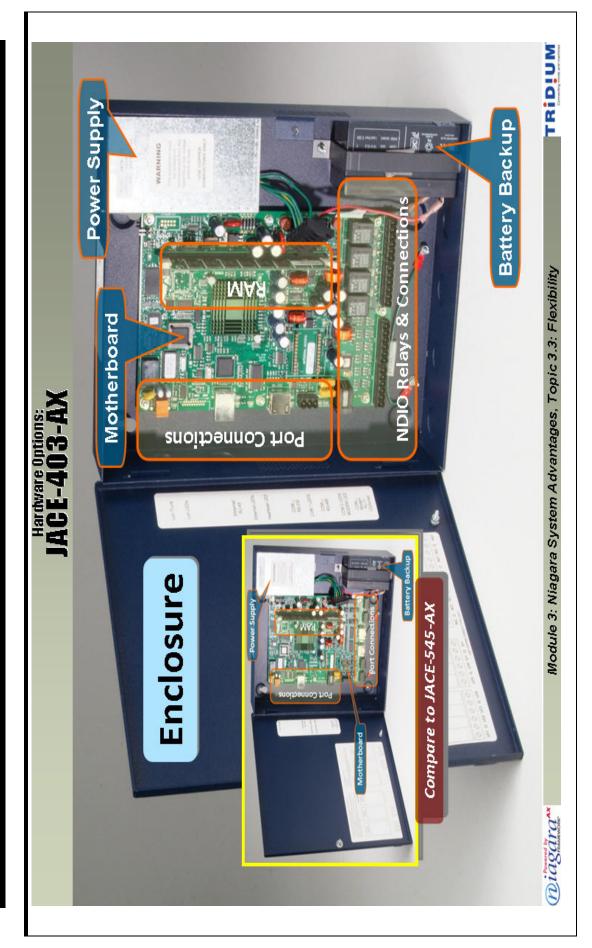
403-AX has an array of Niagara Direct Input/Output (NDIO) relays physically mounted on the mother board. Featuring an internal power supply and a battery backup, the JACE-

JACE-403-AX







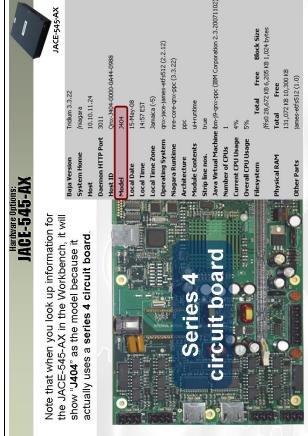


			1 – LON		
		modem (uses RS-232 port when installed)	4 – RS-485		
32 mB flash	(with Java VM)	Auto-dial/auto-answer 56K	1 - RS232	(250 MHz)	
128 mB RAM	XNØ	256 mB RAM / 128 mB flash	1 – Ethernet	Motorola RISC	JACE-545-AX
MEMORY	OPER SYSTEM	OPTIONS-UPGRADES	PORTS	PROCESSOR	JACE TYPE
RAM-FLASH					

### Ideally suited for:

- Commercial applications
- Users who require a compact controller that can be wall- or enclosure-mounted
- Integrating any combination of devices (with the appropriate optional drivers)

IACE-545-AX





JACE-545-AX

ports. Internal and external modem options exist, and either option The JACE-545 comes equipped with an internal power supply and

will tie up an RS-232 port.

battery backup, and features two RS-232 ports with four RS-485

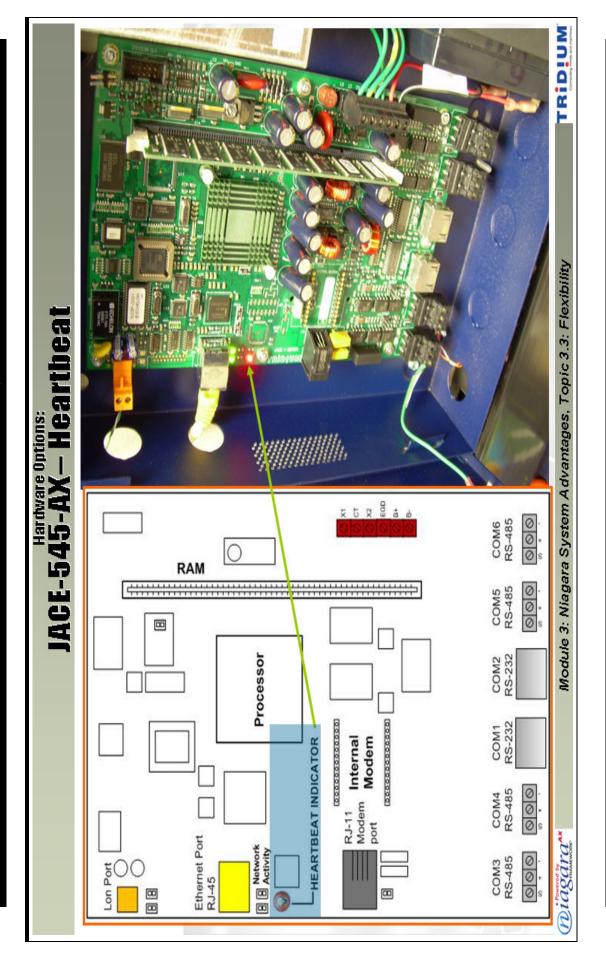


TRIDIUM

Module 3: Niagara System Advantages, Topic 3.3: Flexibility

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JACE TYPE	PROCESSOR	PORTS	OPTIONS-UPGRADES	OPER SYSTEM	RAM-FLASH MEMORY
JACE- 601	Power PC 440 (524 MHz)	2 – Ethernet 1 – USB 1 – RS-232 1 – RS-485	256 mB DDR RAM 78 kbps LON adapter, RS-232 port adapter, Dual port RS-485 adapter Up to 4 I/O modules (16-port) and power module Optional comm. cards	QNX (with Java VM)	128 mB DDR RAM 128 mB flash

### Ideally suited for:

- Smaller facilities and remote sites
- Distributing control and monitoring throughout large facilities
- Supporting a wide range of field busses for connection to remote I/O and stand-alone controllers

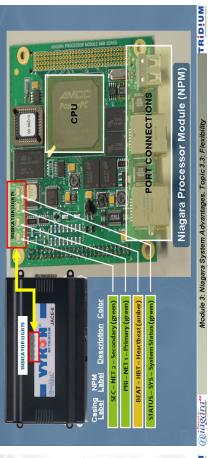


This DIN-rail mountable JACE Controller is designed to be used in conjunction with a Power Supply Module and one or more I/O modules.



The JACE-601 also contains a Niagara Processor Module (NPM).

JACE-601





JACE TYPE	PROCESSOR	PORTS	OPTIONS-UPGRADES	OPER SYSTEM	RAM-FLASH MEMORY
JACE-NXS	Intel Celeron (650 MHz)	1 – Ethernet 4 – USB 1 – RS232 1 – RS-485 1 – LON	Web UI server option (R2) 40 gB hard drive UPS upgrade	Windows XP (with Java VM)	512 mB RAM 1 gB flash drive

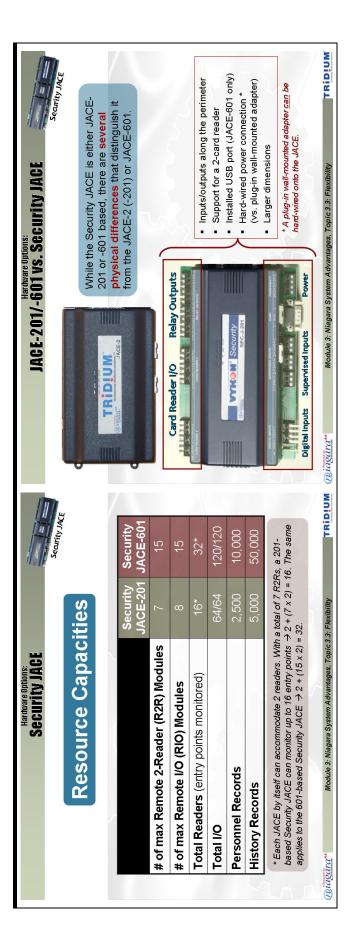
### Ideally suited for:

- Integration, monitoring and control in commercial and light industrial installations
- Installations where large amounts of archives and graphics are required
- Organizations whose IT policies dictate Microsoft products or where applications require a Windows-based platform





		CARD	SUPERVISED	RELAY	DIGITAL		
JACE TYPE	HARDWARE	READERS	INPUTS	OUTPUTS	INPUTS		
Niagara	JACE-201	2	9	4	3		
Security	JACE-601	2	9	4	3		
JACE	READER MODULE	2	4	2	2		
	I/O MODULE		8	∞	2		
			9:				
	HARDWARE	READER MODULES	MODULES	TOTAL READERS	TOTAL I/O	PERSONNEL RECORDS	HISTORY RECORDS
	JACE-201	up to 7	up to 8	16	64 / 64	2,500	5,000
	JACE-601	up to 15	up to 15	32	120 / 120	10,000	20,000
	Hartware Options: Security JAC	420			Hardware Options: Security JACE	utions: V JACE	
The Security solution for t	The Security JACE is part of a complete hardware and software solution for the access control needs of a small building.	e and software uilding.	Security JACE	SECURITY	REMOTE 2-READER	EADER REMOTE I/O	Security JACE
MODIFIED JACE-201	53 53	Physical: Plastic, DIN-rail or screw mountable, air convection-cooled Processor (CPU):	nountable,				Bandle of Control
VNAME Entered	250 mHz Power 524 mHz Power 524 mHz Power Z RAM:	PC405EP (JACE-201 platform) PC440 (JACE-601 platform)	olatform) form)	WYKON' Security	tty (Shigh	ACTION AND ACTION ACTION AND ACTION ACTIO	SEC-RIO
SECURITY JACE-201 PLATFORM MODIFIED JACE-601	201 PLATFORM	128 mB SDRAM (JACE-201 platform) 256 mB DDR RAM (JACE-601 platform) 136 mS Zorage:		THE RESERVE OF THE PARTY OF THE	Transfer of the state of the st		Townson of the Control of the Contro
Control Britain		of the UACE-201 pattern) 12.2 MB (JACE-601 platform) OS: QNX (w/ Java Virtual Machine, Niagara <sup>AV</sup> ) Power: 115 VAC	Niagara <sup>AX</sup> )	Together with a sec and input/output (I/o	ure enclosure, batt )) modules, this sy:	Together with a secure enclosure, battery backup, and remote card reader and input/output (I/O) modules, this system can control a total of 16 entry	rd reader 16 entry
SECURITY JACE.		Port Connections: RS232, RS485, Ethernet (2), USB (JACE-601 only)	Ethernet (2),	points (for JACE-2 JACE-601 based s	01 based systems ystems), as well as	points (for JACE-201 based systems) and a total of 32 entry points (for JACE-601 based systems), as well as provide intrusion detection and	oints (for n and
	☑ Battery backup	Click for Dat	STIFE STATE	A server-based	solution for larger b	nng. A server-based solution for larger buildings is currently under development.	levelopment.
Widging.	Module 3: Niagara System Advantages, Topic 3.3: Flexibility	pic 3.3: Flexibility	TRIDIUM @iagara		ule 3: Niagara System Adv	Module 3: Niagara System Advantages, Topic 3.3: Flexibility	TRIDIUM



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