



Agenda

- JACE 8000 overview
- Niagara 4 licensing
- Distribution
- Selection process
- Q&A



JACE 8000 platform at-a-glance





















- Premier Niagara 4 engine providing software task compression
- Modular hardware design for faster, easier installation
- Global design with enhanced enclosure compatibility
- Enhanced wireless capability, reducing installation labor and materials
- Prominent brand ID, allowing for **OEM** differentiation
- Address hardware obsolescence for enhanced availability and cost



Tool-less Installation





Existing JACE

- Requires tools to install an option card
- Error prone if pins misaligned
- Limited to two option modules

JACE 8000

- Tool-less installation
- Hot pluggable expansion
- Allows up to 4 modules
- Improved DIN rail clip



Faster, easier installation



Existing JACE

- Limited support for wireless protocols
- Limited resources for emerging standards

JACE 8000

- Lower installation costs
- Enable use of wireless devices
- Reduce installation labor
- Reduce material costs



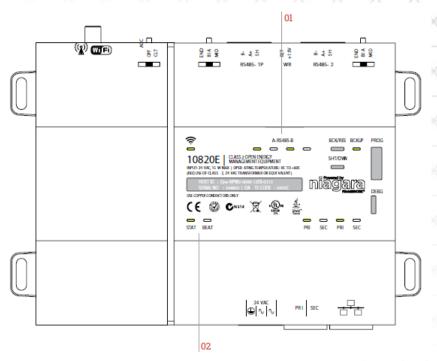
High Performance Core

Hardware specifications

- TI AM3352 @ 1GHz
- 1GB RAM
- 4GB flash total storage / 2GB user storage
- Wi-Fi (Client or WAP)
- USB flash drive
- High-speed field bus expansion
- (2) Isolated RS 485
- (2) 10/100MB Ethernet ports
- -20-60C⁰ Ambient operating temp

Agency certifications

- UL 916
- CE 61326
- FCC Part 15 Subpart B, Class B
- FCC Part 15 Subpart C
- C-Tick
- C-UL



Accessories

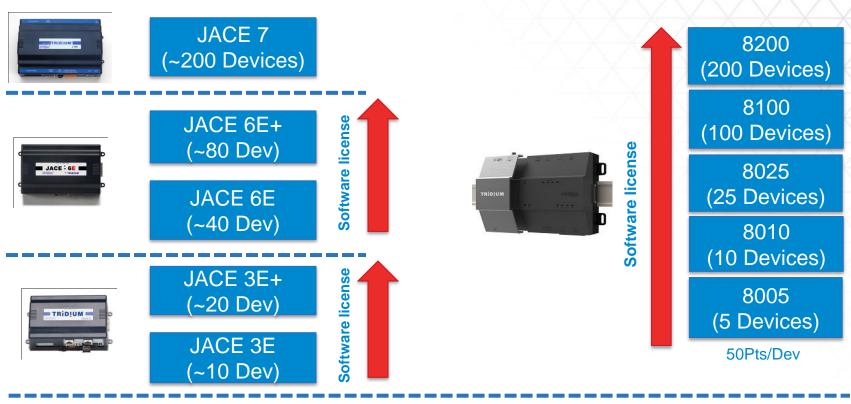
- NPB-8000-2X-485 Dual RS 485 Expansion (2)
- NPB-8000-LON LON FTT10A Expansion (4)
- NPB-8000-232 RS 232 Expansion (4)
- IO-16-485 RS485 16 point IO module (16)



Simplified licensing model

Niagara AX *Multiple Hardware Platforms*

Niagara 4
One Hardware Platform: JACE 8000



Drivers:
Standard included, special/custom – add on

AAM-PUP FLEX
AAM-PHP CCN



Simplifying the Distribution

OEMs and distributors only need to stock hardware







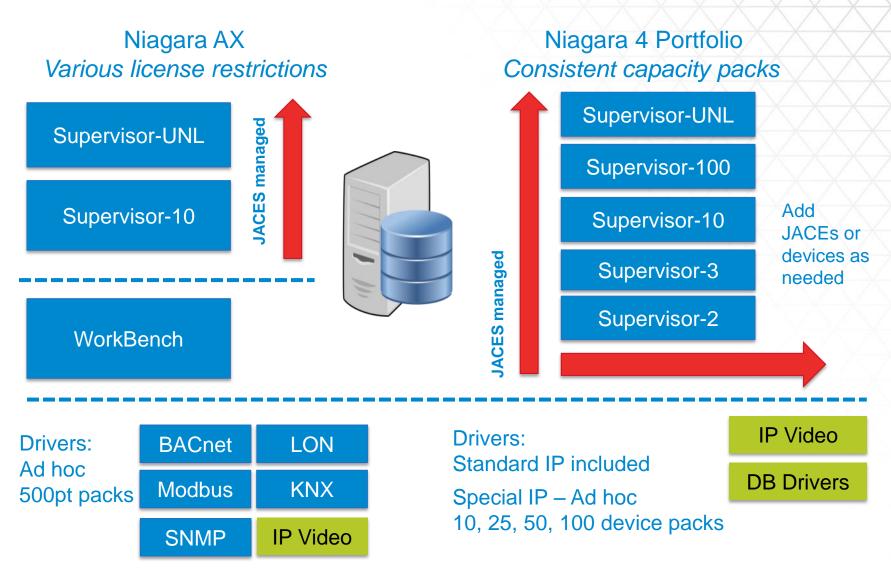
USD Card

Single Hardware Platform

- Less inventory (fewer parts on the shelf)
- Less inventory (no SW to stock)
- Easier upgrades
- Added rebrand flexibility



Consistent capacity-based licensing





Buying Niagara 4: JACE 8000

	Part Number	Description
	JACE 8000	Single JACE 8000, includes branding & uSD card
Add Niagara Includes standard drivers	NC-8005	5 Device Core
	NC-8010	10 Device Core
	NC-8025	25 Device Core
	NC-8100	100 Device Core
	NC-8200	200 Device Core
Add Maintenance	SMA-8005-1YR	1 Year Maintenance (Included)
	SMA-8005-3YR	3 Year Maintenance
	SMA-8005-5YR	5 Year Maintenance
Upgrades	DEVICE-UP-10	10 Device Upgrade
	DEVICE-UP-25	25 Device Upgrade
	DEVICE-UP-50	50 Device Upgrade



Buying Niagara 4: Supervisor

	Supervisor	Description
	SUP-0	0 Niagara network connections
Choose Niagara Connections	SUP-1	1 Niagara network connection
	SUP-10	10 Niagara network connections
	SUP-UNL	Unlimited Niagara network connections
Choose	SUP-DEVICE-10	10 Device Core (Std drivers included)
Field Device	SUP-DEVICE-25	25 Device Core (Std drivers included)
Capacity	SUP-DEVICE-50	50 Device Core (Std drivers included)
Includes std drivers Optional	SUP-DEVICE-100	100 Device Core (Std drivers included)
Add	SUP-0-SMA- 1YR	Supervisor Maintenance – 1 Year (Included)
Maintenance 1-5 years	SUP-0-SMA- 3YR	Supervisor Maintenance – 3 Year
	SUP-0-SMA- 5YR	Supervisor Maintenance – 5 Year



Comparing Niagara AX and Niagara 4

Small job comp	JACE-3E	JACE 8000		
Capacity	Heap/kRU	Devices/points		
Power Supply	NPB-PWR	Included		
Drivers	Add-on	Standard included		
Additional Options	Embedded workbench	Included		
Maintenance	JACE-MA-AX	Included		
Additional enhancements				
Niagara 4	Visualization improvements Tagging/templating Advanced security features			
JACE 8000	Faster UI (stronger CPU) Wi-Fi Upgradeable!			



JACE 8000 in action: ESSI Beta project

Goals

- Upgrade Niagara software and hardware for several K-12 schools
- Manage energy usage, optimize efficiency and reduce costs
- Provide fast, reliable performance; large capacity for history and alarming; suitability for HTML5

Solution: JACE 8000

- Six JACE 8000 controllers connecting 63,291 points and 1,147 devices
- Initial JACE connected 261 BACnet devices to monitor and manage chillers, air handlers, VAVs, FCUs, Modbus power meters, and lighting
- 150-200 edge devices managed per site

Results

- Increased capacity, flexibility and ease of use
- Overall CPU usage 30 percent less compared to NXS
- History and alarming capacity more than met the requirements

Optimizing greater connectivity and the Internet of Things

