



CI-534-N4 Controller

Deliver the Reliability of Niagara to the Edge

Conserve It Edge IoT controllers are a new generation of IoT controllers utilising the Niagara Framework® with an expandable IO network. A first-of-its-kind, the Conserve It Edge IoT 534 combines a fully programmable controller that leverages Niagara, provides 34 points of IO on-board, and web server duties into a single device. Taking Niagara to the edge with real-time control—the Conserve It Edge IoT 534 utilises the same familiar Workbench software, Niagara programming tools and Fox Protocol.

Connect & Access Data — Anytime, Anywhere

Purpose-built, Conserve It Edge IoT 534 delivers edge connectivity, data access and control for today's small to mid-sized facilities, plant control, machine-to-machine and IoT applications that require smart edge technology.

Reduce Engineering Time & Installation Costs

The Conserve It Edge IoT 534 utilises Niagara and a proven IoT edge hardware platform, enabling facility managers and operators to use a known user interface (Workbench/Web Browser) to achieve operational efficiencies between multiple systems and/or devices, facility management functions, equipment control and business applications. Bottom line, Niagara and the Conserve It Edge IoT 534 licensing is well suited to take Niagara into smaller or mid-sized and price-sensitive applications, available 5 devices / 250 points, 10 devices / 500 points and 25 devices/1250 points variations.

Related Expansion Products

CI-SE2

CI-XM-34IOB

CI-XM-34IO

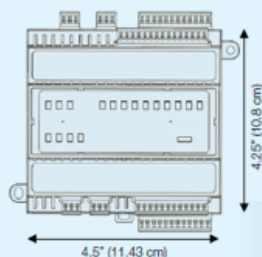
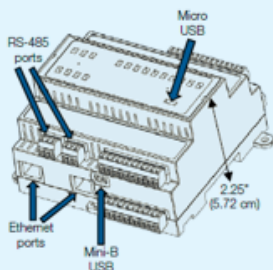
CI-534-N4 Specifications

- Supports full HTML5 web user interface running Niagara 4 framework
- Supports JAVA Web Start without JAVA Plug-Ins
- Standard Drivers—Niagara Network (Fox), BACnet, Modbus, Web & oBIX
- Compatible with many additional drivers
- 10 Digital Outputs, 8 Analog Outputs &
- 16 Universal Inputs
- 10/100 Mbps Ethernet (2), RS-485 (2), USB (2)
- 4G eMMC Flash Memory with expandable SD card option
- 1GHz AM335x ARM Cortex A-8 Processor
- Application-specific apps can be added
- Wired 24 VAC/DC power input, ideal for equipment control and monitoring applications
- 35 mm DIN rail or flat panel mounting

Features

- Conserve It Edge IoT= fully programmable Niagara 4 controller
 - Fox Protocol
 - BACnet, Modbus, Obix - Standard open drivers
 - Familiar programming tools - Workbench/Web Browser
- 34 Points of IO On-Board and enable the Conserve It IO Network
- Add to a CI-534, up to 8 additional extender modules(at 34 points of IO each) for a maximum of 306 points
- Small Unit Footprint (11.4cm x 10.8cm x 5.7cm)

Platform	
Processor	1 GHz AMM335x arm Cortex A8
Memory	512 MB DDR3L 800MHz, 4Gb 8-BIT Embedded MMC on-board Flash
Real-Time Clock (RTC)	Battery-powered clock included to store description/setup values including: year, month, date, hours, minutes, seconds
Communication Ports	
2 Ethernet Ports	10/100 Mbps
2RS-485 Ports	Optically-isolated RS-485 serial port with 3-screw connector
Mini-B USB	USB Client Connector utilizes 5-pin Mini-B USB cable
Micro USB	Serial shell access
IO Network	3-wire high-speed differential serial signal (IO+, IO-, SHLD)
Inputs and Outputs	
16 Universal Inputs	Type-3 10K ohm thermistors; resistance 0-100K ohms; 0-10 Vdc; 0-20 mA using a 499 ohm resistor; pulse input: up to 500Hz
10 Digital Outputs	Form A contacts, 24V at 0.5A
8 Analog Outputs	0-10Vdc
Connector Screw Size	3/32" slotted
Supported Wire Size	28-16 AWG
Housing	UL94V-0
Power	
Power Input	External 24Vac/dc power supply
Chassis	
Construction	Base: Plastic, DIN rail or screw mount Cover: Plastic
Cooling	Internal air convection
Dimensions	11.43cm (4.5") width x 10.8cm (4.25") length x 5.72cm (2.25") depth
Mounting	Flat panel and 35mm DIN rail mounting options standard
Environment	
Operating Temperature	0 - 60°C (32 - 140°F)
Storage	0 - 70°C (32 - 158°F)
Relative Humidity Range	5 - 95% RH, non-condensing
Certifications	
Compliance	FCC Part 15 Subpart B, Class B RoHs, CE EN 61326-1, CAN IC-ES-3(A)/NMB-3(A) Lithium Battery UL 1642. UI916. C-UL LISTED TO Canadian Standards Association (CSA) C22.2 No. 205-MI983 "Signal Equipment"
Weight	
CI-534	0.4kg
Part Number	Description
CI-534-05	CI-534-N4 Controller for 5 devices / 250 points
CI-534-10	CI-534-N4 Controller for 10 devices / 500 points
CI-534-25	CI-534-N4 Controller for 25 devices / 1250 points



powered by
niagara
framework™

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