

# CI-EdgeX1

## Datasheet

### Deliver the Reliability of Niagara® to the Edge

Conserve It Edge IoT controllers are a new generation of IoT controllers using the Niagara Framework®. A first-of-its-kind, the CI-EdgeX1 combines a quad core processor with a wide range of peripherals to deliver fully programmable controller that leverages Niagara, provides expandable IO ports, and web server duties into a single device. Taking Niagara to the edge with real-time control – the CI-EdgeX1 utilizes the same familiar Workbench software, Niagara programming tools and Fox Protocol.

### Conserve It EdgeX1 (CI-EdgeX1) 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 IP drivers
- Expandable I/O available
- 10/100 Mbps Ethernet (2), RS-485 (2)
- 8/16/32G eMMC Flash memory
- Broadcom BCM2837B0, Cortex-A53 (ARMv8) 64-bit SoC @ 1.2GHz Quad core
- Wired 24 VAC/DC power input, ideal for equipment control and monitoring applications
- 35mm DIN rail or flat panel mounting

### Features

- CI-EdgeX1IoT = fully programmable Niagara controller - Fox Protocol - Workbench/Web Browser - Same programming tools
- Expandable Serial expansion
- Super powerful quad-core processor
- 1GB RAM
- Multiple storage options (8/32 GB)
- Fast and increased memory capacity
- Small unit footprint (11.2cm x 10.7cm x 5.6cm)

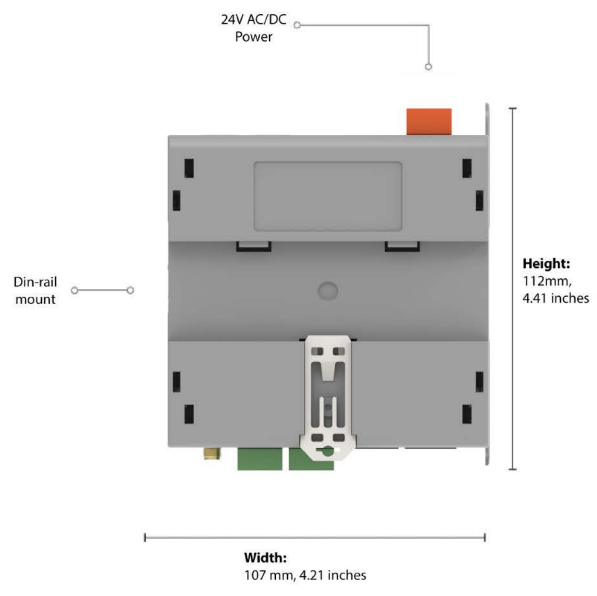
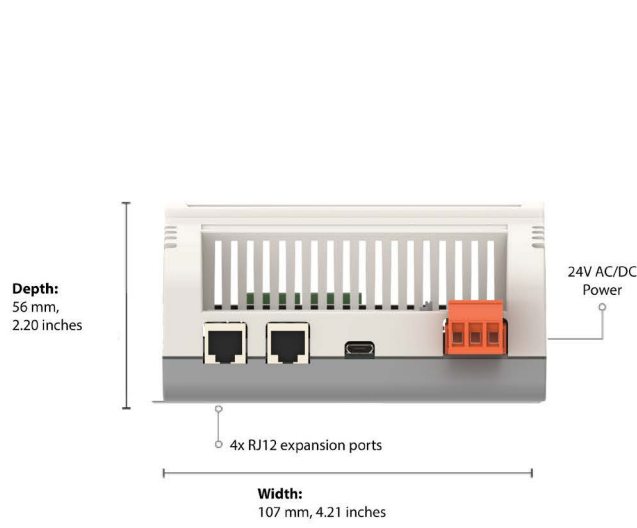
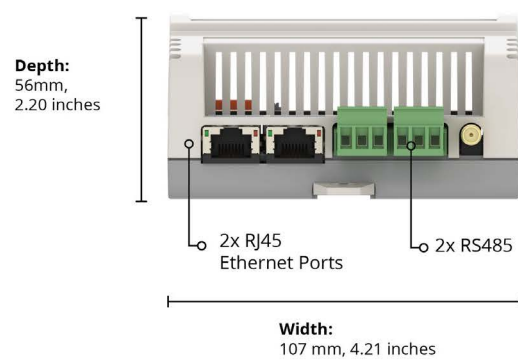
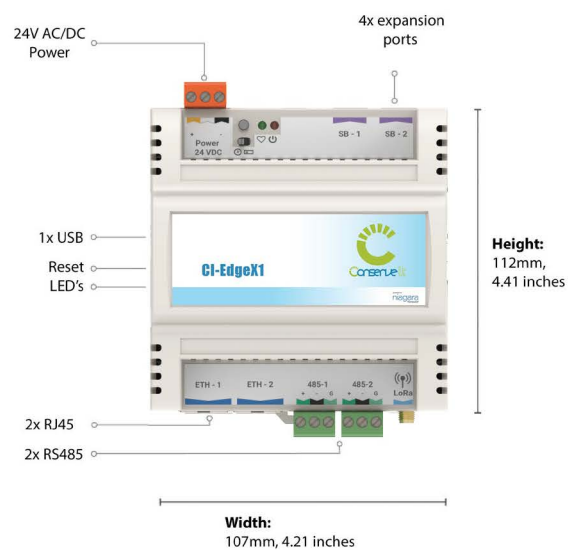
### Connect & Access Data - Anytime, Anywhere

### Reduce Engineering Time & Installation Costs

The Conserve It EdgeX1 utilises Niagara and a proven IoT edge hardware platform, enabling facility managers, operators, system integrators and contractors 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. Ultimately, the CI-EdgeX1 licencing is well-suited to take Niagara into smaller or mid-sized and price-sensitive applications. The following are available: 100 points, 250 points, 500 points, 1250 point and 10,000 point variations.



# Dimensions



# CI-EdgeX1-N4-Module Specifications

PLATFORM	
Processor	Broadcom BCM2837B0, Cortex-A53 (ARMv8) 64-bit SoC @ 1.2GHz
Memory	1GB LPDDR2 SDRAM, 32GB eMMC storage
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
IO network	4 x RJ12 Edge Connect breakout, expandable IO
POWER	
Power Supply	24VDC +/-10%, Consumption 400mA
CHASSIS	
Construction	Base: Plastic, DIN rail or screw mount Cover: Plastic
Cooling	Internal air convection
Dimensions	11.2cm width x 10.7cm length x 5.6cm depth
Mounting	Flat panel and 35mm DIN rail mounting options standard
ENVIRONMENT	
Operating Temperature	-25 - 80C (32-140F)
Relative Humidity Range	5 - 95% RH, non-condensing
CERTIFICATIONS	
Compliance	AS/NZS CISPR 32:2015, CE, FCC
WEIGHT	
CI-EdgeX1	0.4kg
PART NUMBER	DESCRIPTION
	<b>EdgeX1 with Unlimited Devices and Limited Points</b>
CI-Edgex1-100U CI-EdgeX1-250U CI-EdgeX1-500U CI-EdgeX1-1250U CI-EdgeX1-2500U CI-EdgeX1-5000U	CI-EdgeX1 controller with 100 points unlimited devices CI-EdgeX1 controller with 250 points unlimited devices CI-EdgeX1 controller with 500 points unlimited devices CI-EdgeX1 controller with 1250 points unlimited devices CI-EdgeX1 controller with 2500 points unlimited devices (1250 maintenance) CI-EdgeX1 controller with 5000 points unlimited devices
	<b>EdgeX1 with Limited Devices and Limited Points</b>
CI-EdgeX1-100-2D CI-EdgeX1-250-5D CI-EdgeX1-500-10D CI-EdgeX1-1250-25D CI-EdgeX1-2500-100D CI-EdgeX1-5000-200D	CI-EdgeX1 controller with 100 points and 2 device limit CI-EdgeX1 controller with 250 points and 5 device limit CI-EdgeX1 controller with 500 points and 10 device limit CI-EdgeX1 controller with 1250 points 25 device limit CI-EdgeX1 controller with 2500 points 50 device limit CI-EdgeX1 controller with 5000 points 100 device limit

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