CI-EdgeX1

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 Niagara Web Launcher 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

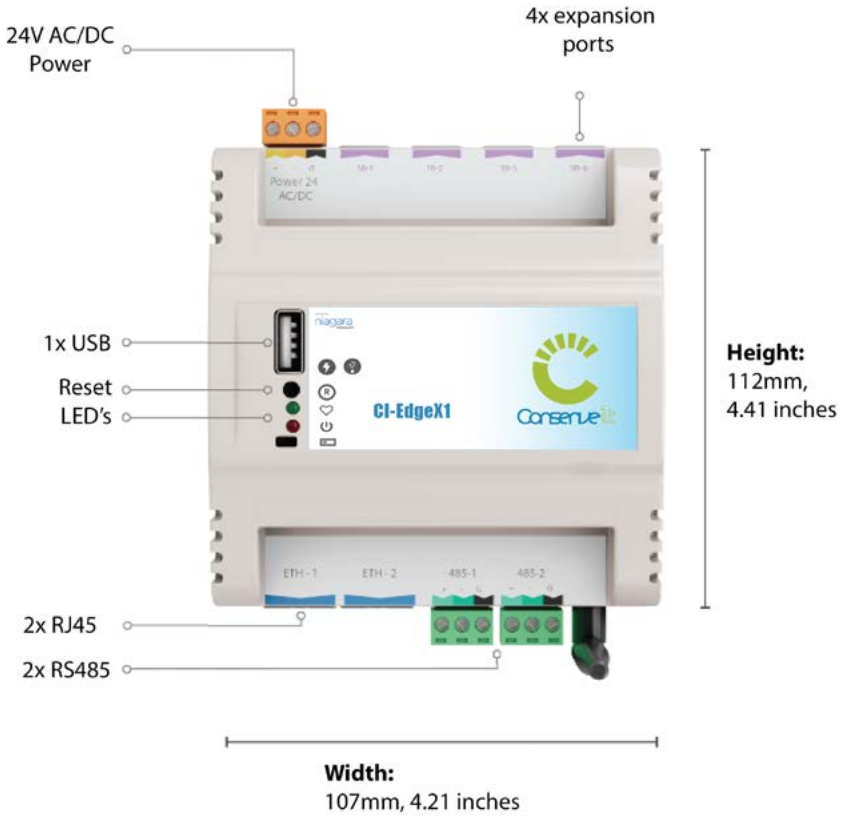
- CI-EdgeX1 = fully programmable Niagara controller
  - Fox Protocol
  - Workbench/Web Browser
  - Same programming tools
- Expandable Serial expansion, 4G, Lora receiver & IO ports
- Super powerful quad-core processor
- 1GB RAM
- Fast and increased memory capacity
- Small unit footprint (11.2cm x 10.7cm x 5.6cm)

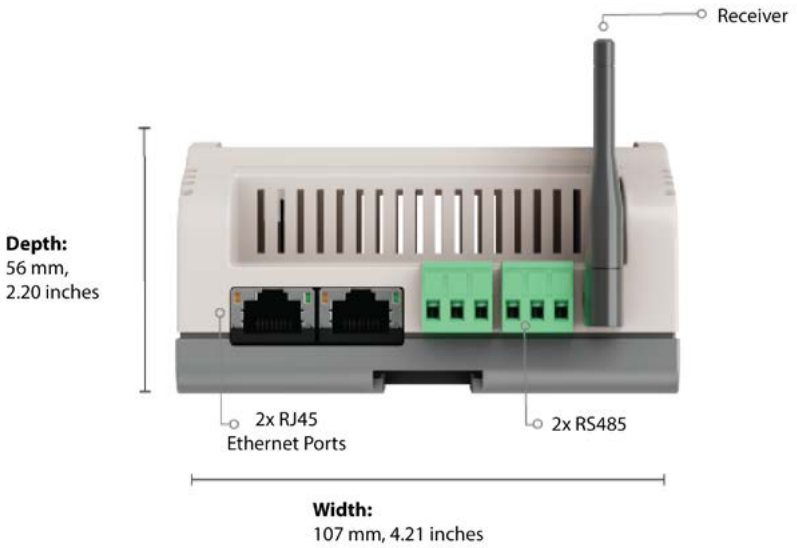
Connect & Access Data - Anytime, Anywhere

Reduce Engineering Time & Installation Costs

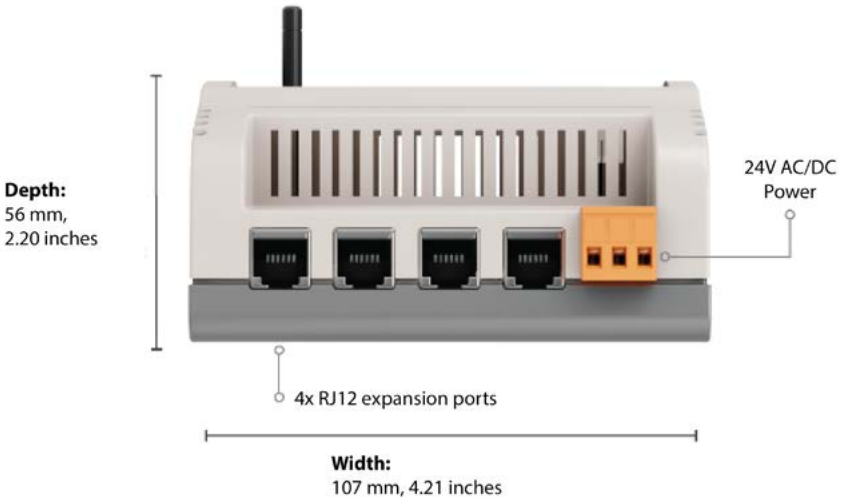
The Conserve It EdgeX1 utilises Niagara and a proven IoT edge hardware platform, enabling facility managers, operators, system integrators and contractors to use a known user interface (Workbench/Web Browser) to achieve operational efficiencies between multiple systems and/or devices, facility management 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, 5,000 point and 10,000 point variations.

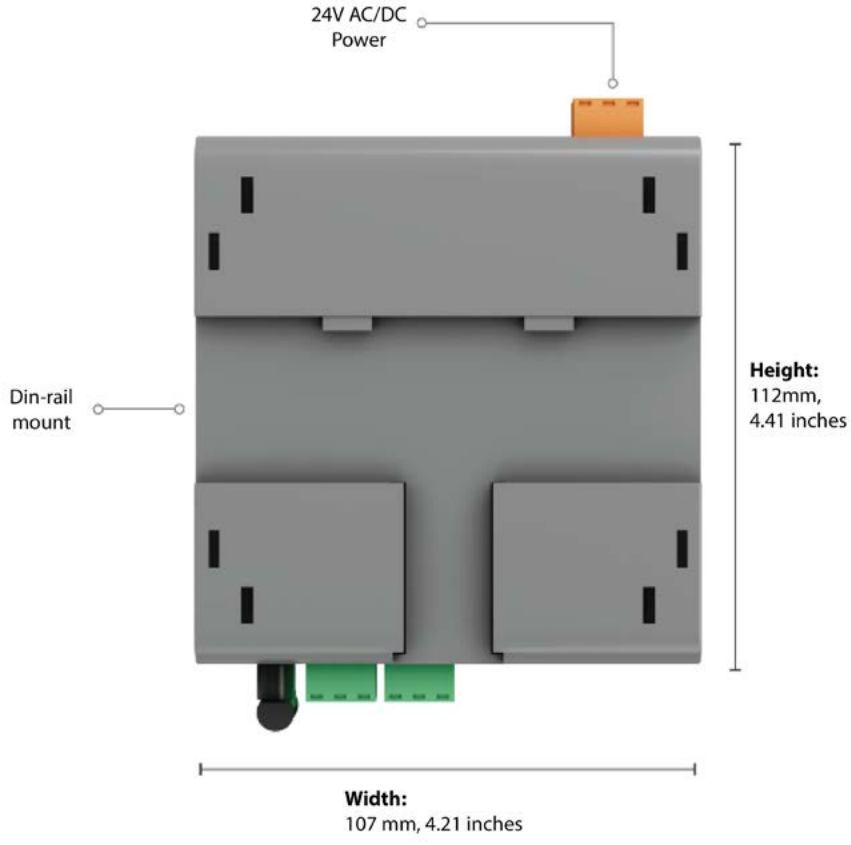
Dimensions


24V AC/DC
Power
4x expansion
ports
1x USB
Reset
LED's
2x RJ45
2x RS485
CI-EdgeX1
Height:
112mm,
4.41 inches
Width:
107mm, 4.21 inches


Receiver
Depth:
56 mm,
2.20 inches
2x RJ45
Ethernet Ports
2x RS485
Width:
107 mm, 4.21 inches

Dimensions


Depth:
56 mm,
2.20 inches
24V AC/DC
Power
4x RJ12 expansion ports
Width:
107 mm, 4.21 inches


24V AC/DC
Power
Din-rail
mount
Height:
112mm,
4.41 inches
Width:
107 mm, 4.21 inches

CI-EdgeX1 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
Mini-B USB	USB Client Connector utilizes 5-pin Mini-B USB cable
Micro USB	Serial shell access
IO network	4 x RJ12 Edge Connect breakout, expandable IO
POWER	
Power Supply	24VAC +/-3% , 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 (-13 - 176 F)
Relative Humidity Range	5 - 95% RH, non-condensing
CERTIFICATIONS	
Compliance	AS/NZS CISPR 32:2015
WEIGHT	
CI-EdgeX1	0.4kg
PART NUMBER	**DESCRIPTION**
CI-EdgeX1-00100 **CI-EdgeX1-00250** **CI-EdgeX1-00500** **CI-EdgeX1-01250** **CI-EdgeX1-05000** **CI-EdgeX1-10000**	CI-EdgeX1 Controller for 100 points CI-EdgeX1 Controller for 250 points CI-EdgeX1 Controller for 500 points CI-EdgeX1 Controller for 1250 points CI-EdgeX1 Controller for 5000 points CI-EdgeX1 Controller for 10000 points