

OVERVIEW

Niagara Edge 10 is an IP-based field equipment controller powered by the Niagara Framework®. Niagara Edge 10 controllers drive applications such as zone temperature control and fan coil unit operation.

The Edge 10 incorporates Internet connectivity, web serving capability, advanced integrated control, data logging, alarming, analytics and trending into a single package.

Other features include:

- Niagara N4 and drivers for BACnet, Modbus and SNMP
- Daisy chaining capability with other Niagara Edge 10 controllers eliminates need for separate wiring back to a switch
- Connectivity options for connecting Niagara Edge 10 controllers to a main building or IT network and managing them directly with a Supervisor together with a JACE®
- Capability to use the secondary Ethernet port of the JACE 8000 to create a private network of Niagara Edge 10 controllers
- 10 points of onboard IO, 1 RS-485 serial port, and 2 10/100 Ethernet ports
- Capability to expand with up to four (4) IO-R processors

SPECIFICATIONS

- NXP iMX6 SoloX2: 800 MHz ARM Cortex-A9/M4
- 512 MB DDR SDRAM
- 2 GB total eMMC flash storage with user space set at 1 GB
- 24 VAC/DC power
- 5 universal inputs: Type 3 (10K) thermistors; 0-10K ohm, 0-10 VDC, 0-20 mA with external resistor; dry contact
- 2 analog outputs: 0-10 VDC, 4 mA maximum output current
- 3 digital outputs: Triac, 24 VAC @ 0.5 A
- 2 (two) 10/100 MB Ethernet ports with daisy chaining capability
- 1 RS-485 serial port
- Real-time clock
- Secure boot
- Expandable to two (2) IO-R-34 or four (4) IO-R-16 connected with a shielded 485 bus. IO-R-16 expansion requires a separate power supply for each IO-R-16 module.
- Supports external data sources using BACnet/IP, Modbus, and SNMP over an IP network and/or BACnet and Modbus over a 485 network



ENVIRONMENTAL SPECIFICATIONS

- Operating temperature: -20–60°C
- Storage temperature: -40–85°C
- Humidity: 5%–95% – non-condensing
- Shipping & vibration: ASTM D4169, Assurance Level II
- MTBF: 10 years

AGENCY LISTINGS

- FCC Part 15, class b
- C-UL
- CE
- UL916, Open Energy Management Class 2
- RoHS2
- REACH
- WEEE
- CAN/CSA-C22.2 No. 205-12

LICENSING

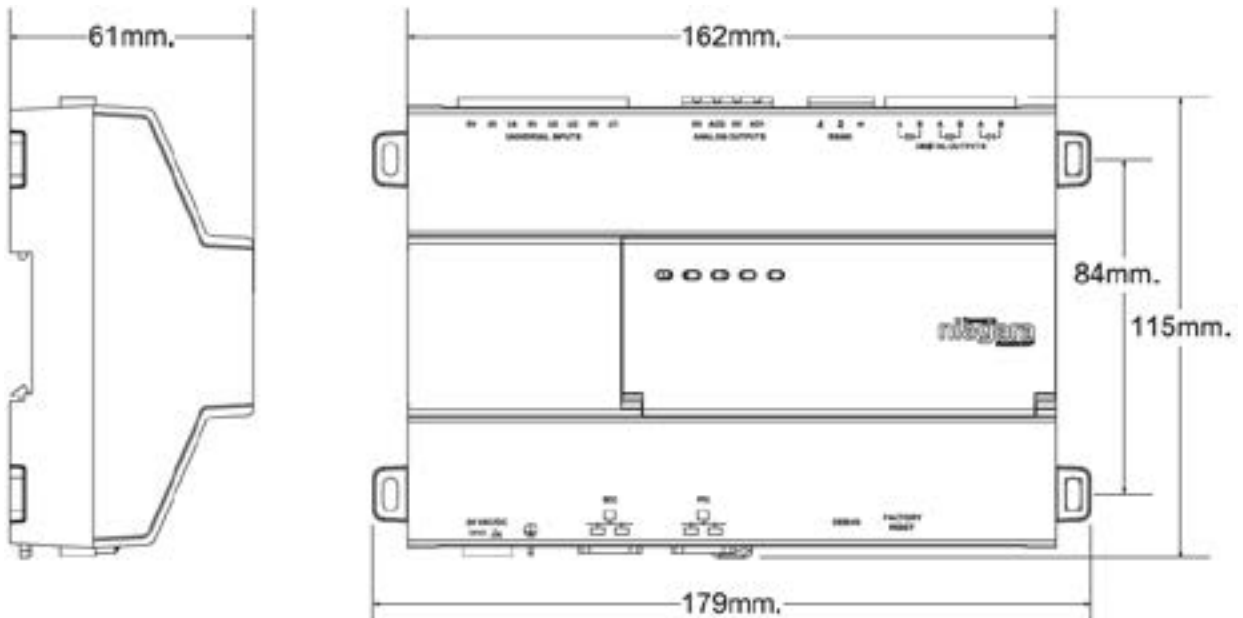
Niagara Edge 10 licensing supports three devices and 50 total points.

Includes all software updates released for commercial use by Tridium for the life of N4*, but not for any later versions

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*Requires Niagara 4.7 or later

DIMENSIONS



MOUNTING

Supports mounting on EN50022 standard 7.5mm x 35mm DIN rail or panel

ORDERING INFORMATION

MODEL/PART NUMBER	DESCRIPTION
VEC-10	Niagara Edge 10 field controller with 10 points of onboard IO, 1 RS-485 serial port, and 2 10/100 Ethernet ports.

SUPPORT

For more information, see the data sheets and other support documents on the respective product series pages on the KMC Controls web site (www.kmccontrols.com). To see all available files, log-in to the KMC Partners site.

