

NOVAR[®] ES1 Edge Server

The NOVAR ES1 Edge Server is a compact, scalable, embedded controller for HVAC, Lighting, Energy, and Refrigeration control systems.

Overview

With Internet connectivity and Web-serving capabilities, the NOVAR ES1 combines integrated control, supervision, data logging, alarming, scheduling, and network management functions. The built-in data server is an IoT gateway that enables the integration, control and management of data from a variety of field devices. In addition to serving data to cloud IoT applications, the Novar ES1 can perform edge analytics at the site to optimize equipment operations and feed richer data. The Novar ES1 will serve real-time and historical information to users in Web-based graphical views. It can integrate devices over a variety of communication protocols including BACnet[™], LonWorks[®], oBIX[™], MODBUS[®], and a variety of Novar protocols.



NOVAR ES1 Edge Server is tailored for the multisite retail market needs.

Applications

Today the multi-site retail world is becoming increasingly connected via the 'cloud' through the explosion of mobile devices and consumer accessible information. The 'Internet of Things' (IoT), combined with the growing demand for more efficient and seamless business processes is driving increasing demands for more flexible, powerful and cost-effective Building Automation System (BAS) capabilities. With the NOVAR ES1 Edge Server you'll have all the power you need to connect, control and communicate with virtually any IoT device in your multi-site portfolio of facilities.

FEATURES & BENEFITS



Advanced Energy Management

Edge Analytics

Novar Legacy Compatible



Open-protocol-based platform

Runs Niagara AX or Niagara 4



Maintains memory without batteries

Real-time Clock



(2) 10/100MB Ethernet ports

(2) isolated RS-485 with selectable bias and termination.



Optional Expansion modules for additional communications ports and I/O

Removable micro-SD card for local back-up and restore.

NOVAR ES1 Edge Server Technical Specifications

PART INFORMATION		SPECIFICATIONS	
PART NUMBERS	Configuration	MOUNTING	Compatible with (DIN43880) enclosures Suitable for mounting to a panel or to an EN50022 standard 35mm rail
NC-8005	Up to 5 devices/250 point core	DIMENSIONS	7.05" W x 4.33" H x 2.40" D (179mm) x (110mm) x (61mm)
NC-8010	Up to 10 devices/500 point core	WEIGHT	t/c
NC-8025	Up to 25 devices/1,250 point core	WITH PACKAGING	1.4 pounds
NC-8100	Up to 100 devices/5,000 point core	W/O PACKAGING	1 pound
NC-8200	Up to 200 devices/10,000 point core	POWER REQUIREMENTS	24VAC/DC power supply
ADDITIONAL OPTIONS	RS-485 Expansion Modules (up to 4 maximum)	COMMUNICATIONS	BACnet® LonWorks® Obix MODBUS® Novarnet Spectrum LCD network
		ENVIRONMENT	
		OPERATING	-20-60°C -4-140°F 5%-95% – Non condensing
		STORAGE	-40-85°C -40-185°F 5%-95% – Non condensing
		APPROVALS	UL 916 CE EN 61326-1 FCC Part 15 Subpart B, Class B FCC Part 15 Subpart C C-UL listed to Canadian Standards Association (CSA) C22.2 No. 205-M1983 "Signal Equipment" 1999/5/EC R&TTE Directive CCC SRRC RSS ROHS

For more information

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NovarES1 | Rev1 | 07/17
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