

## Novar ES3.S - Datasheet

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### Novar ES3.S

**Increase Comfort while modernize your fleet with the latest technologies, improving Energy, and Installation Savings for Retailers**



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### Product Description

The Novar ES3.S is the most fully featured building automation system and energy management solution available for multisite facilities. It provides an unparalleled level of sophistication and flexibility to meet the most demanding and unique energy, operational, and business requirements as they strive to lower operating costs and improve operational efficiencies.

The Novar ES3.S is an embedded controller/server platform designed to be compatible with the XCM.10S and Savvy legacy controllers to migrate your fleet to the latest software version, integrated control and a single pane of glass.

### Application

The Novar ES3.S is a form-fit hardware platform that slides onto the XCM.10S and Savvy baseplate.

Designed to facilitate the transition from legacy systems to Opus latest technology, the Novar ES3.S is compatible with most all field-level controllers and existing communications wiring. It allows you to integrate diverse systems and devices as it supports a wide range of protocols, including NovarNet, BACnet®, MODBUS®, and Internet standards.

The Novar ES3.S controller can be installed quickly, replacing your legacy systems cost-effectively.

### Features Highlights

- Pop-Off / Pop-On solution compatible with XCM.10S, and Savvy controllers enables easy upgrade
- No re-wire, re-tag, re-attach or re-work the panel is needed, 100% compatible with legacy solution
- Advanced multisite energy management solution compatible with Opus Magnum Supervisor
- Enables retailers harmonize their data from various systems into a single-pane view
- Compatible with existing XCM-LCD Display, cable and field devices on site
- Cost-Effective solution avoiding unnecessary labor and efforts reducing time and providing faster start-up

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## Model / Part Number

Classification	Part Number	Product Description
Hardware	ES3.S	ES3.S Executive Controller - Incl. plan controller, electronics and bottom metal cover, drop in design compatible with XCM.10S and Savvy base-plate
Core License	NCP-0005	NCP Core 5 Dev & 250 Pts
Core License	NCP-0025	NCP Core 25 Dev & 1,250 Pts
Core License	NCP-0100	NCP Core 100 Dev & 5,000 Pts
Core License	NCP-0200	NCP Core 200 Dev & 10,000 Pts
SMA Initial	SMA-0005-1YR-INIT	PIN-0005 - Initial 18 mo Maintenance
SMA	SMA-0005-1YR	PIN-0005 - 1 Year Maintenance
SMA	SMA-0005-3YR	PIN-0005 - 3 Year Maintenance
SMA	SMA-0005-5YR	PIN-0005 - 5 Year Maintenance
SMA Initial	SMA-0025-1YR-INIT	PIN-0025 - Initial 18 mo Maintenance
SMA	SMA-0025-1YR	PIN-0025 - 1 Year Maintenance
SMA	SMA-0025-3YR	PIN-0025 - 3 Year Maintenance
SMA	SMA-0025-5YR	PIN-0025 - 5 Year Maintenance
SMA Initial	SMA-0100-1YR-INIT	PIN-0100 - Initial 18 mo Maintenance
SMA	SMA-0100-1YR	PIN-0100 - 1 Year Maintenance
SMA	SMA-0100-3YR	PIN-0100 - 3 Year Maintenance
SMA	SMA-0100-5YR	PIN-0100 - 5 Year Maintenance
SMA Initial	SMA-0200-1YR-INIT	PIN-0200 - Initial 18 mo Maintenance
SMA	SMA-0200-1YR	PIN-0200 - 1 Year Maintenance
SMA	SMA-0200-3YR	PIN-0200 - 3 Year Maintenance
SMA	SMA-0200-5YR	PIN-0200 - 5 Year Maintenance
Device	PIN-DEV-10	Add 10 Dev & 500 Pt Initial
Device	PIN-DEV-25	Add 25 Dev & 1250 Pt Initial

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## General Specifications

### Hardware

NXP iMX6SX 800 MHz ARM® Cortex™ A9  
1GB DDR3 SDRAM  
Real-time clock  
Secure boot  
Batteryless

### Communications

2 Ethernet ports, 10/ 100Mbps  
5 RS-485 ports (3 isolated)  
Micro-USB (for diagnostics)

### Operating System

QNX RTOS  
IBM J9 JVM Java Virtual Machine  
Runs Niagara 4: 4.1 and later (Opus Magnum Supervisor)

### Power Requirements:

Voltage: 24 VAC, Class 2 (22 to 30 VAC), 50/60 Hz  
Consumption: 40 VA

### Physical Dimensions (Electronics Only)

Height: 19 inches  
Width: 13.25 inches  
Depth: 2.5 inches  
Weight: 6.3 lb (electronic assembly & cover plate)

### Input / Output Ratings:

Analog Inputs: 4 to 20 mA current loop  
(Accuracy +/- 2% of span)  
Loop Source: 24VDC at 500mA max  
Digital Inputs: Contact closure only

**Relay Outputs:** 24 VAC or VDC, 2 amp  
(pilot duty) Class 2

**Output (Fault):** 24 VAC or VDC, 2 amp  
(pilot duty) Class 2

### Operating Environment:

Temperature: 32°F to 122°F (0°C to 50°C)  
Humidity: 0 to 95% Relative, non-condensing

### LED Indicators

Power  
Communication  
Module Health

### Approvals

Listed Device: CUL/UL E90949  
Standards Used: UL 916, Energy Management Equipment  
CSA C22.2, No. 205-M1983, Signal Equipment