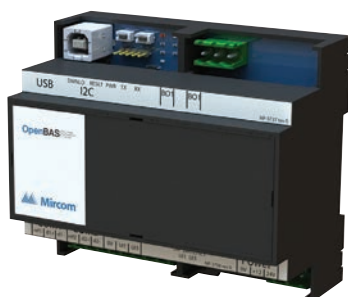


OpenBAS BUILDING AUTOMATION SYSTEM

Accessories

Mircom's OpenBAS controllers can be expanded with supported accessories to accommodate any industrial, commercial, or residential application. Some of the accessories include memory expansion, protocol conversion, digital displays, SMS transmitters, and networking modules. The OpenBAS accessories provide the flexibility to scale from a small to large system with its modular architecture.

Optional Networking Modules



OpenBAS-NWK-NXSMS

The OpenBAS-NWK-NXSMS is a GSM based modem with SMS text message generation that ties directly into the OpenBAS Controllers. The OpenBAS-NWK-NXSMS can be programmed with its internal 400-1200 instruction PLC to send up to 20 text messages.

It has two RS-485 field buses with multiple protocol support for: BACnet/MSTP, Modbus/RTU, Opto-22, N2-Open, and ASCII. The NWK-SMS incorporates one universal input and one universal output to be used as a standalone SMS generator. This product requires a GSM based SIM card (not included).

- Footprint: 10.5 x 9 x 6 cm
- GSM/SMS module with antenna
- Uses standard SIM module for easy setup into cell network
- Generates up to 20 different messages, where each can be sent to a separate phone number
- Two universal inputs
- One digital output 0.5 Amp @ 120 VAC
- Two field buses with RS-485 drivers
- Powered by 24 VAC/VDC or 12 VDC
- USB 2.0 and I2C buses
- Field bus protocols; BACnet/MSTP, Modbus RTU, N2-Open, Opto22, ASCII
- Alarm and event reporting over GSM/SMS
- DIN Rail mountable

Communication Adapter Boards



OBS-NWK-USBCNV

The USB to RS-485 / RS-232 converter is used for connecting a PC to any OpenBAS controller via RS-485 or RS-232 ports.

- Footprint: 3.5 x 9 x 6 cm
- RS485 port uses screw terminal plug
- DIN Rail mountable - Sold in din rail box similar to one PC of RF433R
- RS-232 port with RS11 connector for PRO-2000 applications
- Communication LEDs
- USP Powered

Typical Applications:

- Protocol conversion
- PC gateway
- PC programming
- Commissioning

Wireless Temperature & Protocol Conversion



OpenBAS-HV-RF433R

Wireless adapter module with I2C bus interface designed to add wireless communication to the OpenBAS NX10 Series of controllers.

Two-piece design with external antenna placement for optimal wireless signal in metal-enclosed installations.

Enables the communication of up to 10 OpenBAS-HV-WLSTH - wireless temperature and humidity sensors field devices.

Note: The wireless adder module works in 433 MHz bandwidth as a default.

- Footprint: 3.5 x 9 x 6 cm
- Split design for better RF reception
- Powered by I2C @ 5 VDC
- DIN Rail mountable



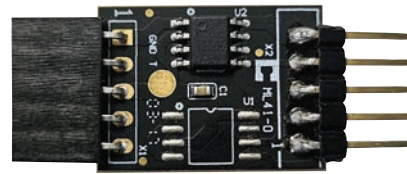
OpenBAS-HV-NXCORE

A small footprint protocol converter with a 400-1200 instruction PLC automation controller for HVAC and energy management applications, providing a total of 50 remote points.

- USB 2.0
- Two RS485/RS232 field buses with multiple protocol support
- I2C bus
- Works on 12/24 Volts AC/DC
- DIN Rail mountable - sold in a din rail box similar to NX4AO



Optional Memory Expansion Modules



OpenBAS-ACC-32KNV

- Connects to all NX series controllers' I2C header, except the OpenBAS-HV-NX10D.
- Activates PLC2 and PLC3 functions by default for improved automation capabilities.
- Additional 410 remote points are available, supporting a mix of wired and wireless setups.
- Provides default 16KB of dedicated script storage, enabling more complex control scripts and advanced data handling.

The Learning Module



OpenBAS-HV-LEARN

The learning module is designed for OpenBAS training which includes multiple inputs and outputs to replicate inputs and loads. It connects with the OpenBAS software for programming. Used for training installers, technicians, and commissioning engineers.

- 8 LED's for binary outputs (4 open collector outputs available externally)
- 8 potentiometers for analog inputs (4 terminals available for external input)
- 8 toggle switches for binary inputs (4 terminals available for external input)
- 2 RS-485 communication ports
- 2 analog outputs (3.3V max)
- 1 integrated 1000 Ω temperature sensor
- 400 PLC instructions, 400 schedules, 50 remote points
- SPI bus for connecting the Ethernet Gateway (OpenBAS-NWK-ETH3)
- I2C bus for connecting LCD display, future memory expansions
- 12 V AC/DC, or powered over micro-USB

Ordering Information

Model	Description
OpenBAS-ACC-32KNV	32KB Non-Volatile RAM Memory Expansion, 1 I2C port
OBS-NWK-USBCNV	USB type B to RS485 / RS232 (RJ 11 port) Converter
OpenBAS-NWK-NXSMS	Automation Controller with SMS Alerting - 1 BO (pilot duty), 2 UI, 2 RS-485 ports, 1 USB port type B, 1 I2C port (It requires GSM based SIM card with active service)
OpenBAS-HV-RF433R	433 MHz Wireless Receiver, 1 I2C port
OpenBAS-HV-NXCORE	Protocol Converter for HVAC and Energy Management Applications - 2 RS-485 ports, 1 USB port type B, 1 I2C port
OpenBAS-HV-LEARN	The Learning Module - 8 LEDs, 8 Toggle Switches, 8 Potentiometers, 4 BO, 2 AO, 4 UI, 2 RS-485 ports, 1 micro USB port, 1 I2C port, 1 Temp Sensor. (OpenBAS-HV-LEARN is used for Training purpose only)
BT-025	Replacement / Optional battery for NX10, NX12R, NXHALF, NXSF
BT-014	Replacement AA batteries for WLSTH
BT-007	Replacement battery for ETH3, ME11



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