

864e

By Optergy

The 864e is an input and output expansion module for use with the P864 controller. It can be expanded to a total of 144 hardware points using a P864 and by adding up to 7 additional 864e modules.

The P864 controller can directly control 864e inputs and outputs.

The P864 controller can host control logic, schedules, trends, alarms and is expandable using the 864e expansion modules up to 144 hardware data points.

The P864 stores all 864e data into memory in the event of power interruption. Normal operation resumes after power is restored.

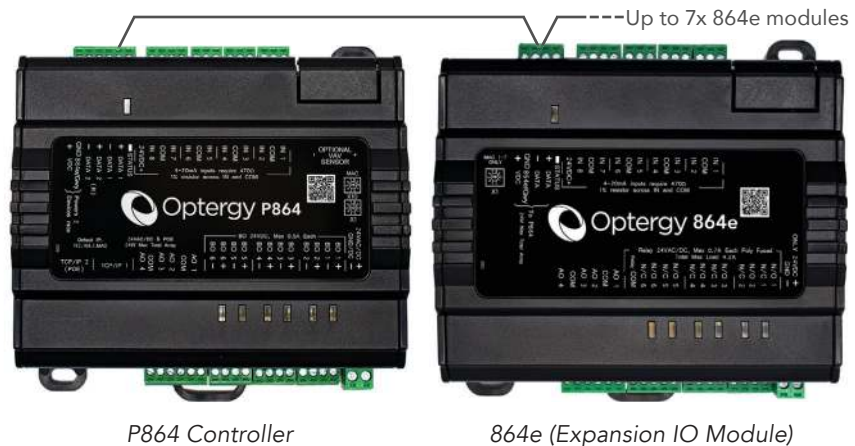


MAIN FEATURES

- 8 x universal inputs (12 bit resolution)
- 6 x binary outputs (relay NO/NC contacts)
- 4 x analog outputs (12 bit resolution)
- Powered via 24 VDC
- Web based configuration via P864
- Input and output setup
- Expanded P864 count as 1 device for Optergy software licensing
- Program logic, schedules/trends/alarms/calendars are managed in P864
- 24 VDC power supply (for sensors and other devices)

MODELS

864e (expansion IO module connects to P864 only)



APPLICATIONS

Master Controller

Central Plants
Large built up AHU
Small Building Control

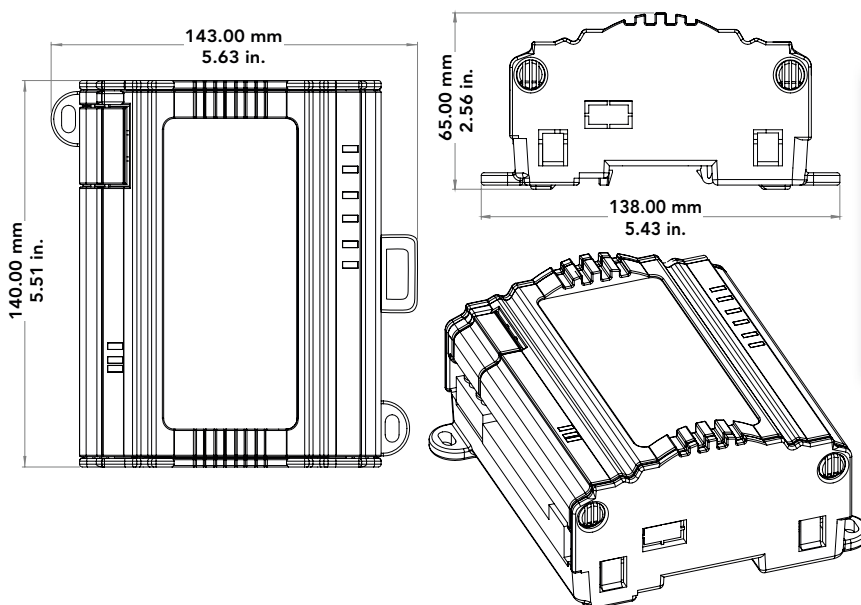
Unitary Controller

Air Handling Unit
Lighting Control
Energy Metering

HARDWARE SPECIFICATIONS

Processor & Memory	Arm Cortex-M3 32-bit Micro Controller (72 MHz) 64 KB RAM 512 KB Flash Memory
Power	24 VDC, min load: 7 W, max load: 24 W
Inputs	8 universal inputs with 12-bit resolution, software selectable for 10 K. Type 2 thermistor, 3K thermistor, dry contact, 0-5 VDC/4-20 mA or 0-10 VDC signals. Pulse inputs support up to 100 Hz.
Binary Outputs	6 NO/NC contacts each rated at 24 VAC/DC, 0.7 A passthrough. Total max current not to exceed 4.2 A for all relay contacts. Relay common can be cold or hot, powered by external ELV power supply.
Analog Outputs	4 outputs with 12-bit resolution. Software selectable 0-10 VDC or 4-20 mA. (0-10 VDC min load resistance is 500 ohm)
24 VDC Output	Power for external devices up to 18 watts maximum (max 0.75 A at 24 VDC)
Dimensions	W 143.00 mm (5.63 in.) x L 140.00 mm (5.51 in.) x H 65.00 mm (2.56 in.) Both screw and DIN rail mountable
Terminals	Removable header-type screw terminals accept 14-24 AWG (max 3 x 1.5 mm ²)
Environment	-20°C to + 60°C -4°F to + 140°F 0 to 95% RH, non condensing
Communications	External cable (EXP bus)
Status Indication	Status LED. Indicated normal or fault condition.
Agency Certifications	UL 916, CE, FCC Purpose of control: Energy Management Construction of control: Independently Mounted Control for Surface Mount or DIN Rail
	Pollution Degree: 2 Impulse Voltage: 330 V ELV Levels: 24 V

HARDWARE DIMENSIONS



CONFIGURATION OPTIONS

Master Controller with Expansion IO control

