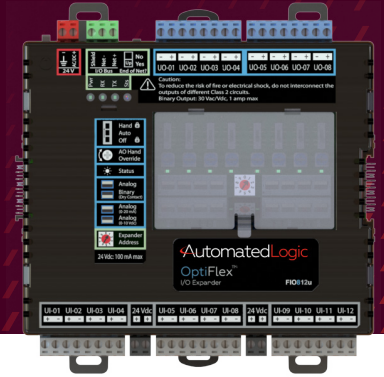


OptiFlex™ I/O Expanders

UL 864, 10th Edition Compliant

PART NUMBERS: FIO812U AND FIO012U



Point Expansion for OptiFlex BACnet Building Controllers

The OptiFlex I/O expanders increase the input and output capacity of OptiFlex BACnet Building controllers, with support for up to nine expanders per controller. Designed for maximum flexibility, the expanders can be mixed and matched to meet specific equipment control requirements. Expanders can be installed directly on the controller or remotely located up to 500 feet away, enabling versatile panel layouts and application designs. DIN rail and screw mounting options simplify installation, while an optional UUKL-certified driver and marking support UL 864 smoke control applications.

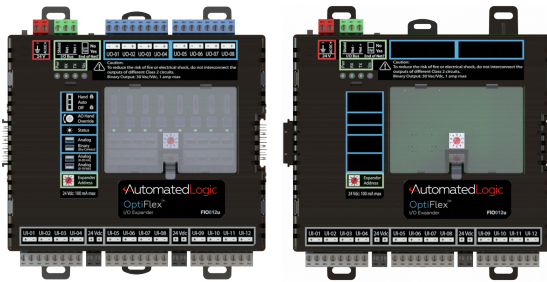
Compatibility

The UL 864 certified OptiFlex I/O Expanders work with the following OptiFlex BACnet Building controllers:

- OFI628
- OFBBC

Expander Point Capacity by Part#

Part#	FIO812u	FIO012u
Universal Outputs	8	0
Universal Inputs	12	12



WebCTRL®

The WebCTRL building automation system gives you the ability to understand your building operations and analyze the results. Integrate environmental, energy, security and safety systems into one powerful management tool that helps you reduce energy consumption, increase occupant comfort, and achieve sustainable building operations.



Specifications

OptiFlex I/O Expanders (FIO812U, FIO012U - UL864, 10TH EDITION COMPLIANT)	
Power	24 Vac ±10%, 50–60 Hz, 50 VA or 26 Vdc ±10%, 12 W
Communication	
I/O Bus Port	Provides communication for wired FIO expanders that are powered by external power supplies.
I/O Bus Edge Connector	6-pin connector that provides communication and power to a directly connected FIO expander.
Inputs	Configurable in the control program for 0-5 Vdc, 0-10 Vdc, 0-20 mA, RTD, thermistor, dry contact, or pulse counter
Resolution	16-bit A/D
Outputs	-Outputs can be set as analog or binary outputs. -Analog outputs can be used for 0-10 Vdc or 0-20 mA devices. -Binary outputs have a built-in relay and can be used to switch external devices or relays up to 1A, 30 Vac/Vdc
Resolution	12 bit D/A
Microprocessor	32-bit microprocessor with 256 kB Flash memory and 64 kB SRAM
Status Indicators	LED indicate status of communications, system state (running or errors), outputs, and power
Environmental Range	-40°C to 70°C (-40°F to 158°F), 10-95% RH non-condensing. FIO expanders are suitable for installation inside or outside the building envelope when installed in a UL Listed enclosure.
Protection	Two fast-acting 5mm x 20mm glass fuses: A 2A fuse for the FIO expander's power and a 4A fuse for the I/O bus edge connector.
Terminal Connectors	Screw-type terminal blocks. 0.2 in. (5.08 mm) pitch connectors
Compliance	United States: FCC compliant to Title CFR47, Part 15, Subpart B, Class A. UL Listed, File E143900; CCN PAZX, UL916, Energy Management Equipment, UUKL certified (UL864 10th edition compliant); AS/NZS: RCM Mark, IEC 61000-6-3; Canada: UL Listed File E143900, CCN PAZX7, CAN/CSA C22.2 No. 205 Signal Equip., Industry Canada Compliant, ICES-003, Class A; CE Mark Compliant with 2014/30/EU, and RoHS Compliant: 2015/863/EU; UKCA Mark compliant with Electromagnetic Compatibility Regulations 2016 – Gov.UK and RoHS for Electrical and Electronic Equipment 2012, REACH Compliant
Plastic Rating	Fire-retardant plastic ABS, UL94-5VA
Mounting	35mm DIN rail mounting or screw mounting

Figure 1: Physical Dimensions

