OPTICORE LS-XP

I/O Point Expanders

The OEMCtrl[®] OptiCORE[™] LS-XP expanders are capable of controlling HVAC equipment with high I/O point counts (up to 180) through expandable I/O boards. The OptiCORE I/O expanders deliver input and output capacity to the powerful OptiCORE LS-CPU controller.

Up to nine OptiCORE I/O expanders can be added to an OptiCORE controller. OptiCORE I/O expanders are designed for flexible panel configurations. They are DIN rail or screw-tab mountable and can be mixed and matched to meet the I/O requirements of the equipment being controlled.

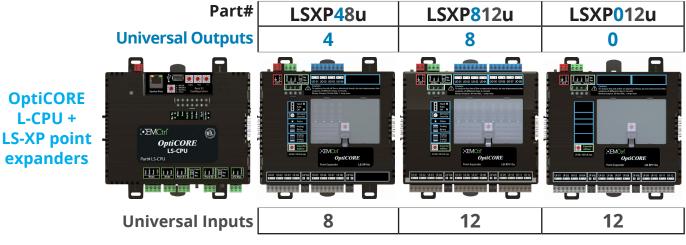
The expanders can be mounted directly to the LS-CPU controller or remotely mounted up to 500' away.

Key Features and Benefits

Hardware Features

- Expands the OptiCORE LS-CPU processor to support up to 180 I/O points
- Backplane mounting via srew tab or DIN rail mounting
- Removable screw terminals for I/O connections
- Hand-Auto-Off switches on all output channels
- Software selectable input configuration no jumpers
- Color-coated I/O and easy to read labeling minimizes wiring errors
- LEDs for each output for easy identification of output status whether configured as an AO or DO
- LEDs for status indicators for Power, Run, Error, Xnet TX and Xnet Rx





Support for up to 9 I/O expanders (180 points)



Specifications

Power	24 Vac ±10%, 50-60 Hz, 50 VA, 26 Vdc ±10%, 15 W, Single Class 2 source only, 100 VA or less	
Physical	Fire-retardant plastic ABS, UL94-5VA, Weight: 1 lb. 1 oz. (0.482 kg)	
Operating Range	-40º to 158º F (-40º to 70º C); 10 - 90% relative humidity, non-condensing	
Communication Ports	IO Bus port : Provides up to 2000 ft (610 m) communication for wired remote LS-XP expanders that are powered by external power supplies IO Bus edge connector: 6-pin connector that provides communication and power to a directly connected LS-XP expander	
Inputs	LS-XP48u: 8 inputs LS-XP812u: 12 inputs LS-XP012u: 12 inputs	Inputs software configurable for 0-5 VDC, 0-10 VDC, 0-20 mA, thermistor (5k, 10k Type II), 1k RTD (Platinum,Nickel, or Balco), and Dry Contact. Inputs are 16 bit A/D and support up to 40 pulses per second (12.5 msec min. pulse).
Outputs	LS-XP48u: 4 outputs LS-XP812u: 8 outputs	Outputs can be set as analog or binary outputs. Analog outputs can be used for 0-10 VDC, 0-20 mA (12 bit D/A). Binary outputs have a built-in relay and can be used to switch external devices or relays up to 1A, 30Vac/Vdc HAO (hand/auto/off) switches are on each output, including potentiometers for manual adjustment of analog outputs.
Protection	 Two fast acting, 5mm x 20mm glass fuses: A 2A fuse for the LS-CPU's power A 4A fuse for the I/O bus edge connector The power and network ports comply with the EMC requirements EN50491-5-2. 	
Status Indicators	LEDs indicate status of communications, system state (running or errors), outputs, and power	
Compliance/Listing CEFC (한) 받음 RoHS (한)	United States : FCC compliant to Title CFR47, Part 15, Subpart B, Class A; UL Listed, File E143900; CCN PAZX, UL 916, Energy Management Equipment; ANZ : RCM Mark AS/NZS 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.	
I/O Expander Support	Up to 9 OptiCORE I/O expa and/or 6 I/O Pro expander no more than 9 expanders supported on an LS-CPU. OptiCORE LS-XP I/O expan • LS XP812u • LS XP48u • LS XP012u	rs, but Overall s total A: 6.9 in. (17.53 cm) B: 6.95 in. (17.65 cm) Depth: 2.09 in. (5.31 cm)

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