L2-PDM

Power Distribution Module, 16 ports, 24-48Vin

This passive backplane module is mounted inside an L2-ENC wall enclosure and accepts up to 16 socket modules in its 16 Sockets[A]. 24-48V input power[B] and a communication bus[C] is connected to each Socket to power and control each inserted module. The Sockets are each connected to an adjoining RJ45 Port[D] where the converted input power is merged with the communication data and accessory 12V power from an L2-APR inserted in the middle of the PDM. All three signal paths (Power, 12V accessory power, and Data) are sent over Cat5/6 wires from the RJ45 Port to the end devices located around the building. 16 Zone Control Channels[E] create a matrix, allowing any Socket to write or read a control signal. Channels are used to group lights into zones. The communication bus can extend zones to other panels around a building, and the L2-EGW Ethernet Gateway provides virtually unlimited system size. Up to 8 PDMs can share channels, or they can be separated, creating up to a 128x128 matrix in a single enclosure.

INPUT POWER

Total Power per PDM	720W @ 48V supply
	360W @ 24V supply
	180W @ 12V supply
Power Input Connector	2 conductor screw clamp
Power Input Wire Gauge	12-14 AWG (2.0-3.5mm^2)
Power Input Voltage	24-48VDC
Input Voltage Maximum	60VDC
Input Current Maximum	15A

PORTS

Quantity Ports/Sockets	16
Voltage Maximum	65VDC
Current Maximum	1.2A
Power Maximum	60W
Connector Type	RJ45 (x16)
Accessory 12V Current Maximum	300mA
Accessory 12V Power Maximum	3.6W per port
Total Accessory 12V Power	up to 15W

RS485 CONTROL BUS

Management Speed	38,400 bps
Speed Maximum	1 Mbps
Connector	10-pin (top, bottom)
Port modules per PDMbus	128

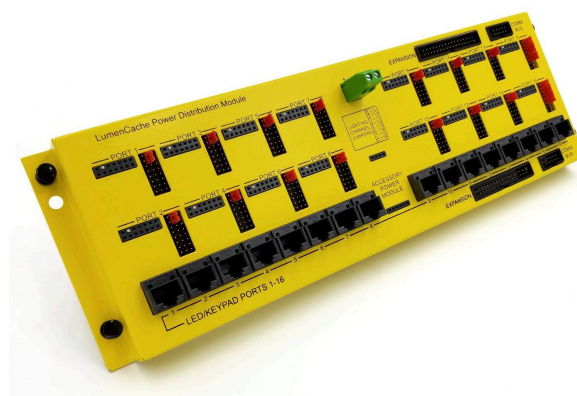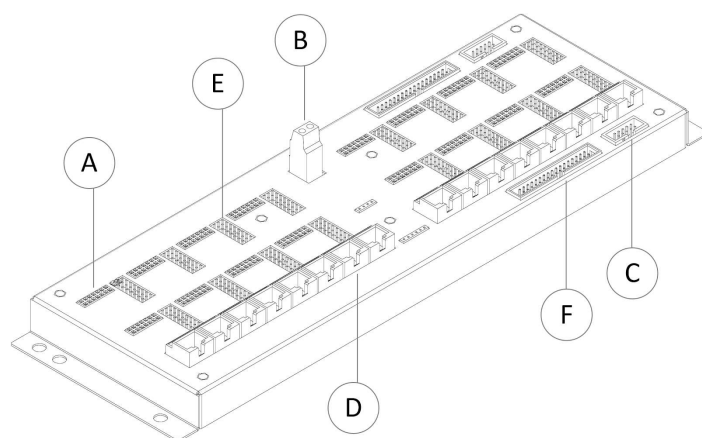### CONTROL CHANNELS (Zones)

Signal Type	0-5VDC, PWM
Channels	16
Channel Expansion Bus Connector	34-pin (top, bottom)
PDMs connected	up to 8 (order ENC-to-ENC cable)
Sockets per channel	up to 128

PHYSICAL/ENVIRONMENTAL

Dimensions	13.15 x 4.15 x 1.19in (334 x 105 x 30mm)
Operating Temperature	+32°F to +122°F (0°C to +50°C)
Operating Humidity	5% to 95% Non-condensing
Rating	Dry Rated
Environmental	RoHS
Safety Certifications	ANSI/UL 2108, UL/CSA 60950-1, CAN/CSA C22.2#250.13, CSA C22.2#9.0, CSA C22.2#223
	(Certification requires installation in L2-ENC28 enclosure)

WARRANTY

Duration	10 Years

ORDERING INSTRUCTIONS:

PART ID	MODEL	DESCRIPTION
14020000.2	L2-PDM	Power Distribution Module, 16 ports, 24-48Vin