

Network Switches & Fiber Modules



EMS00-008



EMS00-048



EMS00-024



EMX00-0FX

8-Port Switches

The 8-port models feature Gigabit Ethernet ports in a compact form factor. The switches are fully manageable, delivering robust performance and intelligent switching for your networks.

The switch offers the forwarding capacity to simultaneously process traffic on all ports at line rate without any packet loss. For its total, non-blocking throughput, each switch supports up to 8 Gbps with a switching capacity of 16 Gbps.

Mount the switch to a vertical surface using the included wall-mounting hardware, or place the switch on a level, horizontal surface and the built-in, non-skid rubber feet hold it firmly in place.

24 & 48 Port Switches

Available with 24 or 48 RJ45 Gigabit ports, the switches are fully managed Gigabit switches, delivering robust performance and intelligent switching for your growing networks.

The switches offer forwarding capacity to simultaneously process traffic on all ports at line rate without any packet loss. For its total, non-blocking throughput, the 24-port model supports up to 26 Gbps, while the 48-port model supports up to 70 Gbps.

Each model includes two SFP ports for uplinks of up to 1 Gbps. The 48-port model adds two SFP+ ports for high-capacity uplinks of up to 10 Gbps, so you can directly connect to a high-performance storage server or deploy a long-distance uplink to another switch.

24 Port PoE+ Switches

The 24 Port PoE+ Gigabit Switch delivers a robust performance and intelligent switching for growing networks.

- (24) Gigabit RJ45 Ports
- (2) SFP Ports
- (1) Serial Console Port
- Non-Blocking Throughput: 26 Gbps
- Switching Capacity: 52 Gbps
- Forwarding Rate: 38.69 Mpps
- Maximum Power Consumption: 250W
- Supports PoE+ IEEE 802.3at/af and 24V Passive PoE
- Rack mountable

Fiber Modules

Leviton offers two types of modules for fiber connectivity applications.

- Multi-mode: EMX00-0FX: SFP, 1 Gbps
- Single mode: EMX00-0LX: SFP+, 10 Gbps
- **Indoor Runs:** For convenient multi-mode connections that extend beyond the 100-meter limitation of Ethernet cabling, use the EMX00-0FX for distances of up to 550 m and speeds of up to 1 Gbps.
- **Outdoor Runs:** For long-distance single-mode runs, use the EMX00-0LX for distances of up to 10 KM at 10 Gbps

All Switches and Modules

Management software provided via permanently installed Cloud Key, one required per network, software hosted on technician's computer, or through APP. Recommended to use Cloud Key anytime access points is being used or if there are 2 or more switches on the network.

Unify Security Gateway (USG) required to provide DHCP and DNS services to the network for DRC systems if not being provided by any other means.

Switch Specifications

EMS00-008		
Total Non-Blocking Throughput	8 Gbps	
Switching Capacity	16 Gbps	
Forwarding Rate	11.9 Mpps	
Max. Power Consumption	12W (Excluding PoE Output)	
Max. Passive PoE Wattage per Port	PoE Mode 1: 12W @ 802.3af PoE Mode 2: 12W @ 48V DC Input Mode: 12W @ 48V	
Passive PoE Voltage Range	Depends on power source	
Power Method	(1) DC 48V, Max. 1.25A; (1) PoE Input, 802.3 af/at (Pins +1, 2; -3, 6)	
Supported Voltage Range	DC: 48V; 48V; Mode: 56V to 40V	
Power Supply	External AC/DC Adapter, 48V, 0.5A	
LEDs	PoE (Port 8), Speed/Link/Activity (All Ports)	
Sound Level*	0.7 dBr (Fanless)	
Networking Interfaces	8) 10/100/1000 Mbps RJ45 Ports	
PoE In Interface (Port 1)	PoE Mode 1: 802.3af/at (Pins +1, 2; -3, 6); PoE Mode 2: 48V (Pins +4, 5; -7, 8)	
PoE Out Interface (Port 8)	PoE Mode 1: 48V (Pins +1, 2; -3, 6); PoE Mode 2: Passive 48V (Pins +4, 5; -7, 8); DC Input Mode: DC Passthrough (Pins +1, 2; -3, 6)	
Management Interface	Ethernet In-Band Management	
ESD/EMP Protection	Air: ± 24 kV, Contact: ± 24 kV	
Dimensions	5.83" x 3.92" x 1.21" (148.0 mm x 99.5 mm x 30.7 mm)	
Weight	15.24 oz (432 g)	
Enclosure Characteristics	SGCC Steel	
Operating Temperature/Humidity	23° to 113° F (-5° to 45° C); 5 to 95% Non-condensing	
Shock and Vibration	ETSI300-019-1.4 Standard	
Certifications	CE, FCC, IC	
EMS00-024		EMS00-048
Networking Interfaces	(24) 10/100/1000 Mbps RJ45 Ethernet Ports (2) 1 Gbps SFP Ethernet Ports	(48) 10/100/1000 Mbps RJ45 Ethernet Ports (2) 1/10 Gbps SFP+ Ethernet Ports (2) 1 Gbps SFP Ethernet Ports
Management Interface	(1) RJ45 Serial Port Out-of-Band, Ethernet In-Band	
Total Non-Blocking Throughput	26 Gbps	70 Gbps
Switching Capacity	52 Gbps	140 Gbps
Forwarding Rate	38.69 Mpps	104.16 Mpps
Power Method	100-240VAC/50-60 Hz, Universal Input	
Power Supply	AC/DC, Internal, 25W DC	AC/DC, Internal, 56W DC
Max. Power Consumption	25W	56W
LEDs per Port	Speed/Link/Activity	
Sound Level*	Fan Level: 0 1.6 dBr Fan Level: 1 9.2 dBr	Fan Level: 0 0.7 dBr Fan Level: 1 13.5 dBr
ESD/EMP Protection	Air: ± 24 kV, Contact: ± 24 kV	
Rack Mount	Yes, 1U High	
Shock and Vibration	ETSI300-019-1.4 Standard	
Dimensions	17.44" x 1.69" x 8.70" (443 mm x 43 mm x 221mm)	17.44" x 1.69" x 11.26" (443 mm x 43 mm x 286 mm)
Weight	Rack-Mount Brackets Excluded: 5.53 lb (2.51 kg) Rack-Mount Brackets Included: 5.70 lb (2.60 kg)	Rack-Mount Brackets Excluded: 3.56 kg (7.85 lb) Rack-Mount Brackets Included: 3.65 kg (8.06 lb)
Operating Temperature/Humidity	23° to 104° F (-5° to 40° C); 5 to 95% Non-condensing	
Certifications	CE, FCC, IC	

*Background noise level: 27.5 dBA

Product Data

EMx00-xxx

Switch Specifications

EMS00-P24	
Networking Interfaces	(24) 10/100/1000 Mbps RJ45 Ethernet Ports; (2) 1 Gbps SFP Ethernet Ports
Management Interface	(1) RJ45 Serial Port Out-of-Band, Ethernet In-Band
Total Non-Blocking Throughput	26 Gbps
Switching Capacity	52 Gbps
Forwarding Rate	38.69 Mpps
MAC Address Table	16384
Maximum Aggregations	6
Monitoring Sessions	1
Maximum VLANs	255
Power Method	100-240VAC/50-60 Hz, Universal Input
Power Supply	AC/DC, Internal, 250W DC
Max. Power Consumption	Including PoE Output: 250W; Excluding PoE Output: 30W
LEDs per Port	RJ45 Data Ports: PoE, Speed/Link/Activity; SFP Data Ports: Speed/Link/Activity
Sound Level*	Fan Level 0: 9.1 dBr; Fan Level 1: 14.2 dBr; Fan Level 2: 16.8 dBr; Fan Level 3: 21.2 dBr
ESD/EMP Protection	Air: ± 24 kV, Contact: ± 24 kV
Shock and Vibration	ETSI300-019-1.4 Standard
Dimensions	19.09" x 1.72" x 11.24" (485 mm x 43.7 mm x 285.4 mm)
Weight	10.4 lb (4.7 kg)
Operating Temperature/Humidity	23 to 104° F (-5 to 40° C); 5 to 95% Non-condensing
Certifications	CE, FCC, IC

PoE+ Per Port	
PoE Interfaces	PoE+ IEEE 802.3af/at (Pins 1, 2+; 3, 6-) 24VDC Passive PoE (Pins 4, 5+; 7, 8-)
Max. PoE+ Wattage per Port by PSE	34.2W
Voltage Range 802.3at Mode	50-57V
Max. Passive PoE Wattage per Port	17W
24V Passive PoE Voltage Range	20-27V

*Background noise level: 27.5 dBa

Gigabit Fiber Modules Specifications

	EMX00-OLX	EMX00-OFX
Supported Media	Single-Mode Fiber	Multi-Mode Fiber
Connector Type	(2) LC	
BiDi	—	—
TX Wavelength	1310 nm	850 nm
RX Wavelength	1310 nm	850 nm
Data Rate	10 Gbps SFP+	1.25 Gbps SFP
Cable Distance	10 km	550 m
Operating Temperature	32° to 158° F (0° to 70° C)	

Leviton Manufacturing Co., Inc. Lighting & Controls

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Ordering Information

Product Name	
Cat. No.	Description
EMS00-008	Managed Ethernet Switch, 8 Ports, Supports up to (2) SFP Modules
EMS00-024	Managed Ethernet Switch, 24 Ports, Supports up to (2) SFP Modules
EMS00-048	Managed Ethernet Switch, 48 Ports, Supports up to (2) SFP Modules
EMS00-P24	Managed Ethernet Switch, 24 Ports, Supports up to (2) SFP Modules, PoE
EMX00-0FX	Gigabit Fiber Module, LC Connector, Multi-Mode Fiber, Up to 550m
EMX00-0LX	Gigabit Fiber Module, LC Connector, Single Mode Fiber up to 10km
EMC00-000	Cloud Key Controller with Integrated Application Server, White
EMV00-000	Enterprise Security Gateway Router with Gigabit Ethernet
EMV00-PR4	Enterprise Security Gateway Router Pro with Gigabit Ethernet

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