

16-port ePoE Switch

Layer 2 Managed ePoE Switch



System Overview

The DH-LR2218-16ET-240 is a 16-port ePoE Ethernet switch that supports PoE, PoE+, Hi-PoE and the PoC transmission standards. The switch is a component of Dahua's innovative Enhanced Power over Ethernet (ePoE) system that transmits power and data over long distances without the need for repeaters or multiple switches.

Technical Specification

Ethernet Ports	Two (2) 1000 Base-X Ports (combo ports) Two (2) 10/100/1000 Base-T Ports 16 10/100 Base-T Ports (PoE Power Supply)
PoE Features	<ul style="list-style-type: none"> Hi-PoE: Ports 1 and 2 Consumption: up to 60 W per port IEEE802.3af, IEEE802.3at: Ports 3 to 16 Consumption: up to 30 W per port Enhanced PoE (ePoE): Ports 1 to 8 Total PoE Budget: ≤ 240 W
PoE Protocol	PoE (IEEE802.3af), PoE+ (IEEE802.3at), Hi-PoE
Switching Capacity	8.8 Gbps
Packet Forwarding Rate	5.36 Mpps
Packet Buffer Memory	2.75 MB
Power Requirements	100 VAC to 240 VAC, 50/60 Hz
Operating Temperature	-10 °C to 55 °C (14 °F to 131 °F)
Application Humidity	10% to 90%
Lightning Protection	Common Mode: 4 KV Differential Mode: 2 KV
Dimensions (W x D x H)	440.0 mm x 300.0 mm x 44.0 mm (17.32 in. x 11.81 in. x 1.73 in.)
Weight	3.12 kg (6.88 lb)

Certifications

Safety	EN 60950-1:2006+A11:2009+A1:2010+A12:2001+A2:2013 UL 60950-1 + CAN/CSA C22.2 No. 60950-1-07
Electromagnetic Compatibility (EMC)	FCC CFR 47 Part 15 subpart B EN 50130-4:2011, EN 55022:2010/AC:2011, EN 55024:2010, EN 55032:2012:+AC:2013, EN 6100-3-2:2014, EN 6100-3-3:2013, IEC 61000-4-2:2008, IEC 61000-4-3:2006+A1:2007+A2:2010, IEC 61000-4-4:2005, IEC 61000-4-5:2005, IEC 61000-4-6-2013, IEC 61000-4-8:2009, IEC 61000-4-11:2004

- Layer 2 Managed Network ePoE Switch
- Enhanced Power and Data Transmission Distances with ePoE
- Supports Long Distance ePoE Transmission, up to 800 m (2524 ft)
- Supports IEEE, E100, and E10 Transmission Modes (Ports 1 to 8)
- Supports Twisted-pair and Coaxial Cable Transmission (Ports 1 to 8)
- Web Management Protocols: 802.1Q, VLAN, STP/RTSP, LACP, 802.1X, QoS
- Supports PoE Management, Green PoE, and Legacy Support
- Supports the IEEE802.3af and IEEE802.3at Standards and Hi-PoE
- Conforms to the IEEE802.3, IEEE802.3u, IEEE802.3ab/z and the IEEE802.3X Standards

ePoE Transmission Distances

Via CAT5E/CAT6 Ethernet Cable

With 48 V Power Supply Unit (included with switch)
Maximum DC resistance < 10 Ω/100 m

Cable Length, m (ft)	Bandwidth, Mbps	PoE Load Capacity, W	Hi-PoE Load Capacity, W	Working Mode
100 (328)	100	25.5	53	IEEE/E100
200 (656)	100	25.5	33	E100
300 (984)	100	19	19	E100
400 (1312)	10	17	17	E10
500 (1640)	10	13	13	E10
800 (2625)	10	7	7	E10

Via CAT5E/CAT6 Ethernet Cable

With optional 53 V Power Supply Unit (for approximately 25% longer transmission distance)
Maximum DC resistance < 10 Ω/100 m

Cable Length, m (ft)	Bandwidth, Mbps	PoE Load Capacity, W	Hi-PoE Load Capacity, W	Working Mode
100 (328)	100	25.5	53	IEEE/E100
200 (656)	100	25.5	47	E100
300 (984)	100	25.5	32	E100
400 (1312)	10	23	26	E10
500 (1640)	10	20	20	E10
800 (2625)	10	13	13	E10

Service Specification	
System	Username/Password: admin/user defined
	IP Address: 192.168.1.110/24
PoE Budget	240 W
MAC Table Size	4K
VLAN	802.1Q Standard VLAN
Spanning Tree	STP, RTSP
Port Aggregation	Static Link Aggregation, LACP Protocol
Port Mirroring	Many-to-One Port Mirroring
DHCP	DHCP-client Support
Long Distance Mode	Power and Data Transmission Distance up to 800 m (2625 ft)
Flow Control	Half-duplex based on back pressure type control
	Full Duplex based on PAUSE Frame
Security Features	IP+MAC Binding, based on port IEEE802.1x Port Authentication
System Maintenance	One-key Recovery, Updated Packet Upload, System Log
QoS	High and Low Priority, WRR, 802.1P, DSCP, Supports priority according to protocol
Network Management	Web (HTTP and HTTPS Protocols), SNMP V1/V2C/V3
PoE Management	PoE Event Statistics
	Green PoE
	Legacy Support

Accessories		
Type	Part Number	Description
SFP Modules, optional	PFT3950	1.25 Gbps, 850 nm, 500 m, LC, Multi-mode
	PFT3960	1.25 Gbps, 1310/1550 nm, 20 km, LC, Single-mode
	PFT3970	1.25 Gbps, 1550/1310 nm, 20 km, LC, Single-mode
EoC Passive Converter, optional	LR1002	One (1) 100 Mbps Base-TX Ethernet Cable One (1) RG59 Coaxial Cable 400 m (1312 ft) at 100 Mbps, 1000 m (3280 ft) at 10 Mbps