

4-port ePoE Switch

Layer 2 ePoE Switch



System Overview

The DH-PFL2106-4ET-96 is a 4-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	
Uplink Ports	One (1) 100/1000 Base-X Port One (1) 10/100/1000 Base-T Port
Downstream Ports	Eight (8) 10/100 Base-T Ports (PoE Power Supply)
PoE Power Consumption	Ports 1, 2, 3: ≤ 30 W; Port 4: ≤ 60; W Total: ≤ 96 W
PoE Protocol	PoE (IEEE802.3af), PoE+ (IEEE802.3at), Hi-PoE
Switching Capacity	6.8 Gbps
Packet Forwarding Rate	3.57 Mpps
Packet Buffer Memory	1 MB
MAC Table Size	8K
Flow Control	Enable by default
Power Requirements	48 VDC to 57 VDC Power Adapter
Operating Temperature	-30 °C to 65 °C (-22 °F to 149 °F)
Application Humidity	10% to 90%
Lightning Protection	Common Mode: 4 KV Differential Mode: 2 KV
Dimensions (W x D x H)	150.0 mm x 100.0 mm x 30.0 mm (5.91 in. x 3.94 in. x 1.18 in.)
Weight	0.48 kg (1.06 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

- Enhanced Power and Data Transmission Distances with ePoE
- Supports Long Distance ePoE Transmission, up to 800 m (2524 ft)
- Layer 2 Network ePoE Switch
- MAC Auto Study and Aging, 8K MAC Address List Capacity
- 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
- Designed for Extreme Temperature Environments

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

Accessories

Type	Part Number	Description
Accessory, included	48V PSU	48 V power supply unit
SFP Modules, optional	PFT3900	155 Mbps, 850 nm, 2 km, LC, Multi-mode
	PFT3910	155 Mbps, 1310/1550 nm, 20 km, LC, Multi-mode
	PFT3920	155 Mbps, 1550/1310 nm, 20 km, LC, Multi-mode
	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