

Hikvision

DS-3E0518P-E/M

Datasheet



Product Overview

- Hikvision's DS-3E0518P-E/M is part of their robust network switch portfolio, designed to deliver reliable gigabit connectivity with PoE.
- This switch is ideal for security system integrators, small businesses, and advanced home users needing seamless power and data for devices.
- With 16 Gigabit PoE ports and 2 SFP fiber optical ports, it ensures high-speed network access and flexible deployment for various scenarios.
- The device features dedicated surge protection and intelligent PoE power management for safer and more efficient operation.
- Installation is simple with plug-and-play unmanaged switching, robust metal housing, and wire-speed forwarding for hassle-free management.
- Hikvision DS-3E0518P-E/M helps users deploy reliable surveillance, IoT, or office networks with gigabit stability and simplified cabling.

Product Highlights

- **High-Density PoE Ports:** 16 Gigabit PoE ports support both data and power transmission for IP cameras or access points, streamlining deployments.
- **Flexible Fiber Uplinks:** Two Gigabit SFP ports offer uplink flexibility, enabling stable and long-distance network extension or aggregation.
- **Enhanced Surge Protection:** Each PoE port features 6 KV surge protection to minimize damage risk in lightning-prone or high-interference areas.
- **Strong PoE Management:** Dynamic PoE power allocation and management ensure safe, efficient power supply across connected endpoints.

Detailed Features



DS-3E0518P-E/M

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Component	Specification
PoE Ports	16 × Gigabit PoE port
Uplink Ports	2 × Gigabit SFP fiber optical port
Switching Capacity	36 Gbps
MAC Address Table	8 K
PoE Power Budget	125 W



16-Port Gigabit PoE Power

Equipped with 16 Gigabit PoE ports, the DS-3E0518P-E/M supports IEEE 802.3af/at standards, delivering both high-speed data and reliable power to end devices. This combination enables the simplified deployment of IP cameras, VoIP phones, and wireless access points, significantly reducing the need for separate power lines. Each port supports up to 30W, making it ideal for dense device environments.

Flexible Fiber Uplink Options

The switch includes 2 dedicated Gigabit SFP ports, allowing flexible uplink connections for aggregation or longer-distance networking. These fiber ports enhance overall deployment scalability, letting users seamlessly integrate the switch into larger infrastructures, while ensuring backbone connectivity is fast and uninterrupted.

Comprehensive IEEE Compliance

Complying with IEEE 802.3, 802.3u, and 802.3x standards, the device guarantees broad compatibility with existing and future network hardware. These standards cover functions such as full/half-duplex operation, flow control, and auto-negotiation, ensuring stable and interoperable performance in diverse business or surveillance networks.

High Surge Resilience

Each PoE port features 6 KV surge protection, minimizing risk from electrical spikes, static, or lightning events. This advanced protection is critical for outdoor or exposed network deployments, safeguarding valuable devices and maintaining operational continuity without frequent maintenance or costly downtime.

Intelligent PoE Power Management

PoE power management enables dynamic distribution of the 125 W power budget, automatically adjusting allocation based on each device's needs. This protects equipment, avoids overload, and ensures optimal power delivery, especially when connecting mixed device types or high-power endpoints.

Wire-Speed Forwarding Performance

With a 36 Gbps switching capacity and 26.79 Mpps packet forwarding rate, the DS-3E0518P-E/M provides true line-rate performance on all ports. Store-and-forward switching technology eliminates packet loss and reduces latency for demanding video surveillance or voice/data applications.

Robust Metal Enclosure

A high-strength metal shell offers enhanced physical durability and superior heat dissipation, making the switch resilient to environmental challenges in office, industrial, or security cabinet deployments. The solid build also helps safeguard sensitive internal components from dust and impacts.

Plug-and-Play Unmanaged Deployment

As an unmanaged switch, setup is entirely plug-and-play, requiring no complex configuration or technical expertise. Administrators or end-users can quickly expand or upgrade networks, making it an efficient choice for distributed sites, rapid rollouts, or entry-level IT staff.

Technical Specifications

Product Specifications

Feature	Value
Shell	Metal material
Net Weight	2.50 kg (5.51 lb)
Gross Weight	3.57 kg (7.87 lb)
Dimensions (W × H × D)	440 mm × 44 mm × 220.8 mm (17.3" × 1.7" × 8.7")
Operating Temperature	0 °C to 45 °C (32 °F to 113 °F)
Storage Temperature	-40 °C to 85 °C (-40 °F to 185 °F)
Operating Humidity	5% to 95% (no condensation)
Relative Humidity	5% to 95% (no condensation)
Power Supply	100-240 VAC, 50/60 Hz, Max. 2.5 A;



Feature	Value
Max. Power Consumption	150 W
Power Consumption in Idle	25 W
Installation Mode	Rack (equipped with mounting ears)
Surge Protection	6 KV
Ports	16 × Gigabit PoE port, 2 × Gigabit fiber optical port
MAC Address Table	8 K
Switching Capacity	36 Gbps
Packet Forwarding Rate	26.79 Mpps
Internal Cache	4.1 Mbits
PoE Standard	IEEE 802.3af; IEEE 802.3at;
PoE Power Pin	End-span: 1/2(+), 3/6(-)
PoE Port	PoE: Ports 1 to 16
Max. Port Power	30 W
PoE Power Budget	125 W
EMC Approval	FCC (47 CFR Part 15, Subpart B), CE-EMC (EN 55032: 2015+A11: 2020, EN IEC 61000-3-2: 2019, EN 61000-3-3: 2013+A1: 2019, EN 50130-4: 2011+A1: 2014, EN 55035: 2017+A11: 2020), IC (ICES-003: Issue 7:2020), RCM (AS/NZS CISPR 32: 2015)
Safety Approval	UL (UL 60950-1), CB (AMD1:2009, AMD2:2013, IEC 62368-1: 2014 (Second Edition), CE-LVD (EN 62368-1: 2014+A11: 2017)
Chemistry Compliance	CE-RoHS (2011/65/EU);
WEEE (2012/19/EU);	
Reach (Regulation (EC) No.1907/2006)	

Product Comparison

Feature	DS-3E0518P-E/M	C9200L-24P-4G-E	C9300-48UXM-E
Port Count	16 × 1G PoE + 2 × 1G SFP	24 × 1G PoE + 4 × 1G SFP	48 × Multi-Gig PoE + 4 × 10G SFP+
Switching Capacity	36 Gbps	56 Gbps	760 Gbps
PoE Power Budget	125 W	370 W	1440 W



Feature	DS-3E0518P-E/M	C9200L-24P-4G-E	C9300-48UXM-E
PoE Standard	802.3af/at	802.3af/at	802.3af/at
MAC Address Table	8 K	16 K	32 K
Stacking Support	No	No	Yes (StackWise-480)
Management	Unmanaged	Managed	Managed
Surge Protection	6 KV	Unknown	Unknown
Deployment Mode	Rack-mount	Rack-mount	Rack-mount

Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> - Power Adapter - Rack Mounting Ears - Quick Start Guide
Optional Accessories	<ul style="list-style-type: none"> - SFP Transceiver - PoE Splitter - Cable Management Kit



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[2] Hikvision. (2023). DS-3E0518P-E/M Network Switch Product Page. Retrieved from <https://www.hikvision.com/en/products/transmission/Network-Switches/unmanaged-switch/ds-3e0518p-e-m/>