

AC+DC input MINI 8-Port Gigabit Ethernet Industrial Switch

HV-TS3000-38EG-ADC-MINI

Product Description

This series of switch products is equipped with 8 gigabit electrical ports and optionally supports IEEE802.3af/at standard PoE functionality. Compliant with FCC, CE, and RoHS standards, it operates within a temperature range of -40°C to 75°C. Featuring high-reliability components and a robust hardware design, it can adapt to various harsh environments and be easily installed in compact control cabinets, providing a reliable and convenient networking solution for users' Ethernet devices.

Product Features

- Integrated PoE design for flexible adaptation to diverse application scenarios;
- RJ45 ports support automatic MDI/MDI-X crossover detection;
- Overcurrent, overvoltage, and EMC protection for RJ45/power input terminals;
- Complies with industrial operation standards, with a mean time between failures (MTBF) of over 100,000 hours;
- Power supply: Non-PoE version: DC 9-60V; PoE version: DC 47-58V, with reverse polarity protection;
- Supports AC+DC dual power input redundancy;
- Lightning surge protection (power supply): 5000A (8/20μs);
- DIN rail mounting with Phoenix terminal power input;

Multiple Protections

- Lightning: 4KV/2KV
- High temperature: -40°C ~ 75°C
- Static electricity: 8KV/15KV
- Service life: 100,000 hours
- Energy saving: 20%~30%
- Certifications: CE/FCC/RoHS

Specification Parameters

Category	Details	
Product Model	HV-TS3000-38EG-ADC-MINI	HV-TS3000-38EG(P)-ADC-MINI
Hardware Configuration		
Interface Type	8 x 10/100/1000Mbps auto-negotiation RJ45 ports	
Exchange Capacity	16G	
Packet Forwarding Rate	12Mpps	
MAC Address Table	2K	
Buffer	2M	
Network Protocol	IEEE802.3 10BASE-T; IEEE802.3i 10Base-T;	
	IEEE802.3u 100Base-TX; IEEE802.3x;	
	IEEE802.3z 1000Base-X;	
Power Interface	5.08mm Phoenix terminal, supporting dual power redundancy	
LED Indicators	PWR (Power LED): Power indicator (Blue)	
	Link/ACT LED: Port indicator (Green)	

	PoE LED: PoE indicator (RED)	
Optical Fiber Interface	/	
Transmission Distance	PoE/Non-PoE: 0~100 meters for 10/100/1000Mbps (CAT5e, CAT6)	
Transmission Medium	10BASE-T: Cat3, 4, 5 or higher twisted pair	
	100BASE-TX: Cat5, 5e, 6 or higher twisted pair	
	1000BASE-TX: Cat5e, 6 or higher twisted pair	
Single mode Fiber	/	
Multimode Fiber	/	
Optical Port Type	/	
Exchange Mode	Store-and-forward	
Power over Ethernet (PoE)	Not supported	Supported
PoE Protocol	/	IEEE802.3af/at
PoE Pin Assignment	/	1/2+, 3/6-
Input Voltage	DC: 9-60V (external power supply)	DC: 47-58V (external power supply)
	AC: 24/48V (external	AC: 48V (external power

	power supply)	supply)
Max Power Consumption	≤3W	≤125W (including PoE)
PoE Port Quantity	/	8
MAX Power per Port	/	15.4W/30W
PoE Short Protect	/	Supported
Function Switch	/	
Operating Temperature	-40°C~+75°C	
Storage/Transport Temperature	-40°C~+85°C	
Relative Humidity	5%~95% non-condensing	
Thermal Methods	Fanless design, natural heat dissipation	
MTBF	100,000h	
EMC	Power Surge Protection: IEC 61000-4-5 4KV/2KV (8/20us)	
	Port Surge Protection: IEC 61000-4-5 4KV/2KV (10/700us)	
	ESD Protection: IEC 61000-4-2 8K/15K	
Product Size	80*65*40mm	

Shell Material	Aluminum alloy
Installation Method	DIN rail mounting
Protection Grade	IP40
Qualification Certification	CE/FCC/RoHS
Net Weight	0.4KG
Accessories	Device, Qualification Certificate, User Manual
	Power Adapter (not standard: optional purchase on demand)
Warranty Period	3 years

Product Selection

Model	Description
HV-TS3000-38EG-ADC-MINI	8 x 10/100/1000M auto-negotiation electrical ports, DC(9-60V)+AC(24/48V) dual power redundancy supply, DIN rail mounting, wide temperature range (-40°C-75°C) - CE-RoHS-FCC;
HV-TS3000-38EG(P)-ADC-MINI	8 x 10/100/1000M auto-negotiation PoE electrical ports, DC(47-58V)+AC(48V) dual power redundancy supply, DIN rail mounting, wide temperature range (-40°C-75°C) - CE-RoHS-FCC;

Notes:

1. Built-in optical module products: ① Default SC dual-fiber bidirectional, 20Km, excluding industrial power supply; ② Optional single-fiber bidirectional: A/TX1310 nm, RX1550nm; B/TX1550nm, RX1310 nm; ③ Optional

transmission distances: 2/20/40/80Km; ④ Optional customized interface types: FC/ST/SC; ⑤ Various industrial power supply types available for optional purchase;

2. Fiber type for 2Km transmission distance: multimode fiber; fiber type for 20/40/80Km transmission distance: singlemode fiber;
3. FC/ST interface types are commonly used for single-fiber bidirectional transmission; please confirm before purchase.

Industry Standards

EMI:

- FCC Part 15 Subpart B Class A, EN 55022 Class A

EMS:

- IEC(EN)61000-4-2 (ESD): $\pm 8\text{kV}$ contact discharge, $\pm 15\text{kV}$ air discharge
- IEC(EN)61000-4-3 (RS): 10V/m ($80 \sim 1000\text{MHz}$)
- IEC(EN)61000-4-4 (EFT):
 - Ports: $\pm 6\text{kV CM} // \pm 4\text{kV DM}$
 - Power supply: $\pm 4\text{kV CM} // \pm 2\text{kV DM}$
- IEC(EN)61000-4-5 (Surge):
 - Ports: $\pm 6\text{kV CM} // \pm 4\text{kV DM}$
 - Power supply: $\pm 4\text{kV CM} // \pm 2\text{kV DM}$
- IEC(EN)61000-4-6 (RF Conducted): 3V ($10\text{kHz} \sim 150\text{kHz}$), 10V ($150\text{kHz} \sim 80\text{MHz}$)
- IEC(EN)61000-4-16 (Common Mode Conducted): 30V cont. 300V , 1s
- IEC(EN)61000-4-8
- Shock: IEC 60068-2-27
- Freefall: IEC 60068-2-32
- Vibration: IEC 60068-2-6

Accessories Selection

Category	Details
Industrial Power Adapter	
HVD-24-75	75W dedicated industrial switch power supply, input 100-240V/50-60Hz, output 24V/75W, suitable for switches with total power below 60W, DIN rail mounting;
HVD-48-120	120W PoE dedicated industrial switch power supply, input 100-240V/50-60Hz, output 48V/120W, suitable for PoE output total power below 100W, DIN rail mounting;
HVD-48-240	240W PoE dedicated industrial switch power supply, input 100-240V/50-60Hz, output 48V/240W, suitable for PoE output total power below 200W, DIN rail mounting;
HVD-48-480	480W PoE dedicated industrial switch power supply, input 100-240V/50-60Hz, output 48V/480W, suitable for PoE output total power below 480W, DIN rail mounting;
Industrial Optical Module	
TMO1315GS-LC20	Industrial-grade gigabit SFP optical module, SFP singlemode, single-fiber bidirectional, 20Km (TX:1310nm/RX:1550nm, LC, -40-85°C);
TMO1513GS-LC20	Industrial-grade gigabit SFP optical module, SFP singlemode, single-fiber bidirectional, 20Km (TX:1550nm/RX:1310nm, LC, -40-85°C);

