



HUS-IDM-G50S

Unmanaged Industrial Ethernet Switch



The Hepda HUS-IDM-G50S Series Unmanaged Industrial Ethernet Switch is a robust, budget-friendly solution designed for outdoor CCTV and industrial networking. Engineered to withstand harsh weather conditions, it delivers seamless connectivity ensuring surveillance systems operate flawlessly in demanding environments.

Housed in a compact IP40-rated aluminum enclosure with DIN-rail and wall-mount options, the HUS-IDM-G50SPp and HUS-IDM-G50Pp9 variants add optional IEEE 802.3af/at/bt Power over Ethernet, enabling single-cable power and data delivery for PoE-powered devices. Wide DC 9–56V dual redundant power input with –40 to +75°C operating range.

Main Features

- 5×10/100/1000BASE-T RJ45 ports with Auto-MDI/MDI-X, no crossover cables needed
- Non-blocking store-and-forward switching at full wire-speed (14Gbps fabric)
- DC 9–56V dual redundant power with reverse polarity & overload protection
- Optional IEEE 802.3af/at/bt PoE for power delivery over the same data cable
- Plug and Play design — zero configuration required for instant deployment
- IP40 aluminum case, fanless passive cooling, –40 to +75°C operating range

Hardware & Performance Specifications

	HUS-IDM-G50S	HUS-IDM-G50SPp	HUS-IDM-G50Pp9
Copper Ports	5×10/100/1000BASE-T RJ45 (Auto-MDI/MDI-X)	5×10/100/1000BASE-T RJ45 (Auto-MDI/MDI-X)	5×10/100/1000BASE-T RJ45 (Auto-MDI/MDI-X)
Fiber Ports	—	—	—
Enclosure	IP40 Aluminum Case	IP40 Aluminum Case	IP40 Aluminum Case
Installation	DIN-Rail / Wall-mount	DIN-Rail / Wall-mount	DIN-Rail / Wall-mount
Dimension	120×90×35 mm	120×90×35 mm	120×90×35 mm
Weight	380g bare / 480g packaged	380g bare / 480g packaged	380g bare / 480g packaged
Surge Protection	±6kV DC; ±4kV RJ45	±6kV DC; ±4kV RJ45	±6kV DC; ±6kV RJ45

Switching Performance			
Switch Architecture	Store-and-Forward	Store-and-Forward	Store-and-Forward
Switch Fabric	14 Gbps / Non-blocking	14 Gbps / Non-blocking	14 Gbps / Non-blocking
Forwarding Rate	7.44 Mpps (64-byte packet)	7.44 Mpps (64-byte packet)	7.44 Mpps (64-byte packet)
Packet Buffer	512 Kbits	512 Kbits	512 Kbits
Max. Packet Length	9K bytes	9K bytes	9K bytes
MAC Address Table	2K entries, auto learning & aging	2K entries, auto learning & aging	2K entries, auto learning & aging
Flow Control	IEEE 802.3x (Full Duplex) / Back Pressure (Half Duplex)	IEEE 802.3x (Full Duplex) / Back Pressure (Half Duplex)	IEEE 802.3x (Full Duplex) / Back Pressure (Half Duplex)

Power Supply			
Operating Voltage	DC 9–56V	DC 48–56V	DC 52–56V
Power Consumption	6W Max (non-PoE)	6W Max (non-PoE)	6W Max (non-PoE)
Power Connector	6-contact terminal blocks	6-contact terminal blocks	6-contact terminal blocks
Protection	Reverse Polarity, Overload	Reverse Polarity, Overload	Reverse Polarity, Overload
PoE Power Budget	—	120W (depends on input)	120W (depends on input)

PoE			
PoE Standard	—	IEEE 802.3 af/at	IEEE 802.3 af/at/bt
PoE Input Voltage	—	DC 48–56V	DC 52–56V
Max. Power/Port	—	30W	90W
Power Supply Pins	—	1/2(+), 3/6(–)	1/2(+), 3/6(–) or 4/5(+), 7/8(–)

Environmental			
Operating Temperature	-40°C ~ +75°C (-40 to 167°F)	-40°C ~ +75°C (-40 to 167°F)	-40°C ~ +75°C (-40 to 167°F)
Storage Temperature	-40°C ~ +85°C (-40 to 185°F)	-40°C ~ +85°C (-40 to 185°F)	-40°C ~ +85°C (-40 to 185°F)
Operating Humidity	5% ~ 95% (non-condensing)	5% ~ 95% (non-condensing)	5% ~ 95% (non-condensing)
MTBF	>500,000 hrs @ MIL-HDBK-217F	>500,000 hrs @ MIL-HDBK-217F	>500,000 hrs @ MIL-HDBK-217F
Cooling	Passive Cooling, Fanless	Passive Cooling, Fanless	Passive Cooling, Fanless

LED Indicator Description	
P1 & P2 (Power)	ON = Power supplied; OFF = Power not supplied
RJ45 Port (Amber)	ON = Link active; Blinking = Data transmitting; OFF = No link
RJ45 Port (Green)	ON = 1000 Mbps; OFF = 10/100 Mbps
RJ45 Green LED	ON: Operating at 1000 Mb/s OFF: 10/100 Mb/s

Regulatory & Compliance	
Standard Compliance	IEEE 802.3 / 802.3u / 802.3ab / 802.3x / 802.3az
ISO	Manufactured in ISO-9001 certified facility
Safety	IEC 62368-1:2020 + A11:2020
EMI	FCC Part 15B Class A; IEC 61000-3-2

EMS	IEC 61000-4-2 ESD: Contact ±8kV, Air ±15kV; IEC 61000-4-5 Surge: Power ±6kV, RJ45 ±4kV/±6kV (PoE)
Shock	IEC 60068-2-27
Free Fall	IEC 60068-2-32
Vibration	IEC 60068-2-6
Environmental	RoHS 2011/65/EU Annex II (EU)
Warranty	5 Years

Order Information

Model Number	10/100/1000Base-T RJ45	100/1000Base-X Port	PoE Standard	Input Voltage	Operating Temp.
HUS-IDM-G50S	5	\	\	2xDC9-56V	-40 to +75°C
HUS-IDM-G50SPp	5	\	Port 1-4 802.3 af/at	2xDC9-56V	-40 to +75°C
HUS-IDM-G50Pp9	5	\	Port 1-4 802.3 af/at/bt	2xDC9-56V	-40 to +75°C

Mechanical Dimensions

Unit: mm

