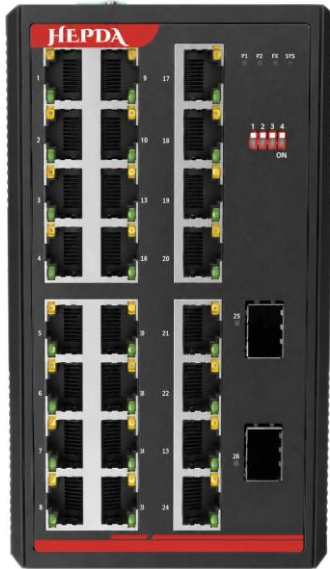




HUS-IDM-G24 Series | 24-Port Unmanaged Industrial Switch

Industrial PoE / Non-PoE Ethernet Switch with Redundant DC Power



Product Overview

The HUS-IDM-G24 Series Unmanaged Industrial Ethernet Switch is a robust, budget-friendly solution for outdoor CCTV surveillance and diverse industrial networking applications. Engineered for harsh environments, it delivers reliable Gigabit connectivity with optional IEEE 802.3 af/at/bt Power over Ethernet support — enabling power and data through the same cable. Housed in a fanless IP40 aluminium chassis with dual redundant DC power inputs and an operating range of -40°C to +75°C, the HUS-IDM-G24 Series is ideal for factory automation, outdoor surveillance, and demanding industrial network deployments.

Main Features

- ▶ IEEE 802.3x flow control (Full Duplex) & backpressure (Half Duplex)
- ▶ Non-blocking store-and-forward switching at full wire-speed
- ▶ Auto-MDI/MDIX — no crossover cables required
- ▶ MAC address auto-learning and auto-aging
- ▶ Auto-negotiation: 10 / 100 / 1000 Mbps on all RJ45 ports
- ▶ IEEE 802.1Q VLAN Transparency
- ▶ Optional IEEE 802.3 af/at/bt Power Over Ethernet support
- ▶ Plug and Play — zero configuration required
- ▶ IP40 aluminium enclosure, fanless passive cooling
- ▶ 9–56V DC redundant power with reverse polarity protection
- ▶ DIN-Rail and wall-mount installation
- ▶ -40°C to +75°C industrial operating temperature range

Hardware & Performance Specifications

Specification	HUS-IDM-G242S	HUS-IDM-G242P	HUS-IDM-G242Pp9
Hardware			
Copper Ports (RJ45)	24 × 10/100/1000BASE-T RJ45	24 × 10/100/1000BASE-T RJ45	24 × 10/100/1000BASE-T RJ45
Fiber Ports (SFP)	2 × 1000BASE-X SFP (Port 25–26)	2 × 1000BASE-X SFP (Port 25–26)	2 × 1000BASE-X SFP (Port 25–26)
Enclosure	IP40 Aluminium, Fanless	IP40 Aluminium, Fanless	IP40 Aluminium, Fanless
Installation	DIN-Rail / Wall-mount	DIN-Rail / Wall-mount	DIN-Rail / Wall-mount
Dimension (mm)	155 × 128 × 88	155 × 128 × 88	155 × 128 × 88
Weight	1500g / 1800g (packaged)	1500g / 1800g (packaged)	1500g / 1800g (packaged)
Surge Protection	±6kV DC, ±4kV RJ45	±6kV DC, ±6kV RJ45	±6kV DC, ±6kV RJ45

Switching			
Switch Architecture	Store-and-Forward	Store-and-Forward	Store-and-Forward
Switch Fabric	52 Gbps / Non-blocking	52 Gbps / Non-blocking	52 Gbps / Non-blocking
Forwarding Rate	38.69 Mpps (64-byte)	38.69 Mpps (64-byte)	38.69 Mpps (64-byte)
Packet Buffer	4 Mbits	4 Mbits	4 Mbits
Max Packet Length	1500 bytes	1500 bytes	1500 bytes
MAC Address Table	8K, auto-learn & aging	8K, auto-learn & aging	8K, auto-learn & aging
Flow Control	802.3x (FD) / Backpressure (HD)	802.3x (FD) / Backpressure (HD)	802.3x (FD) / Backpressure (HD)
Power Supply & PoE			
Power Inputs	2 (Redundant)	2 (Redundant)	2 (Redundant)
Connector	6-pin terminal block; Pin1/2 PWR1, Pin3/4 PWR2, Pin5/6 Fault Alarm	6-pin terminal block; Pin1/2 PWR1, Pin3/4 PWR2, Pin5/6 Fault Alarm	6-pin terminal block; Pin1/2 PWR1, Pin3/4 PWR2, Pin5/6 Fault Alarm
Operating Voltage	DC 9–56V	DC 48–56V	DC 52–56V
Power Consumption	12W Max (no PoE load)	12W Max (no PoE load)	12W Max (no PoE load)
Protection	Reverse Polarity / Overload	Reverse Polarity / Overload	Reverse Polarity / Overload
PoE Ports	None	Port 1–24 (IEEE 802.3 af/at)	Port 1–24 (IEEE 802.3 af/at/bt)
PoE Supply Type	—	End-span	End-span
Power Supply Pin	—	1/2(+), 3/6(–)	1/2(+), 3/6(–) or 4/5(+), 7/8(–)
Max Power Per Port	—	30W	90W
PoE Power Budget	—	Max 588W @ dual 52VDC	Max 588W @ dual 52VDC
Environmental			
Operating Temp.	-40°C to +75°C	-40°C to +75°C	-40°C to +75°C
Storage Temp.	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C
Humidity	5%–95% (non-condensing)	5%–95% (non-condensing)	5%–95% (non-condensing)
Cooling	Passive (Fanless)	Passive (Fanless)	Passive (Fanless)
MTBF	>500,000 hrs @ 50°C (SR-332)	>500,000 hrs @ 50°C (SR-332)	>500,000 hrs @ 50°C (SR-332)
LED Indicators			
P1 & P2 (Power)		ON: Power supplied OFF: No power	
Fiber Port LED		ON: Link active Blinking: Data transmitting OFF: No link	
RJ45 Amber LED		ON: Link active Blinking: Data transmitting OFF: No link	
RJ45 Green LED		ON: Operating at 1000 Mb/s OFF: 10/100 Mb/s	
Regulatory & Compliance			
IEEE Standards		802.3 Ethernet 802.3u Fast Ethernet 802.3ab Gigabit Ethernet 802.3x Full-Duplex Flow Control 802.3az Energy Efficient Ethernet	
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 – ESD		IEC 61000-4-2: Contact ±8kV Air ±15kV	

EMS – Surge	IEC 61000-4-5: Power $\pm 6\text{kV}$ RJ45 $\pm 4\text{kV}$ / $\pm 6\text{kV}$ (PoE models)
Shock / Vibration	IEC 60068-2-27 IEC 60068-2-6
Free Fall	IEC 60068-2-32
RoHS	RoHS 2011/65/EU Annex II (EU)
NDAA	NDAA Compliant
Warranty	1 Year

Mechanical Dimensions

Unit: mm

