



HUS-IDM-G16 Series | 16-Port Unmanaged Industrial Ethernet Switch

Gigabit Multi-Port Industrial Switch



Product Overview

The HUS-IDM-G16 Series is a high-density unmanaged industrial Ethernet switch designed for demanding network environments. Built on a robust IP40 fanless aluminium chassis, it delivers reliable Gigabit connectivity with 9–56V DC redundant power and reverse polarity protection. Supports DIN-Rail or wall-mount installation with an operating range of -40°C to +75°C, making it ideal for factory automation, harsh industrial, and outdoor surveillance applications.

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
- ▶ 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
- ▶ Surge protection: ±6kV DC, ±4kV RJ45

Hardware & Performance Specifications

Specification	HUS-IDM-G88S	HUS-IDM-G16S	HUS-IDM-G162S
Hardware			
Copper Ports (RJ45)	8 × 10/100/1000BASE-T	16 × 10/100/1000BASE-T	16 × 10/100/1000BASE-T
Fiber Ports (SFP)	8 × 1000BASE-X (LC)	None	2 × 1000BASE-X (LC)
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)	160 × 132 × 70	160 × 132 × 70	160 × 132 × 70
Weight	990g / 1250g (packaged)	990g / 1250g (packaged)	990g / 1250g (packaged)
Surge Protection	±6kV DC, ±4kV RJ45	±6kV DC, ±4kV RJ45	±6kV DC, ±4kV 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	23.8 Mpps (64-byte)	23.8 Mpps (64-byte)	26.8 Mpps (64-byte)

Packet Buffer	4 Mbits	4 Mbits	4 Mbits
Max Packet Length	9K bytes	9K bytes	9K 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			
Power Inputs	2 (Redundant)	2 (Redundant)	2 (Redundant)
Connector	5-contact terminal block	5-contact terminal block	5-contact terminal block
Operating Voltage	DC 9–56V	DC 9–56V	DC 9–56V
Power Consumption	10W Max	10W Max	10W Max
Protection	Reverse Polarity / Overload	Reverse Polarity / Overload	Reverse Polarity / Overload
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	>500,000 hrs @ 50°C	>500,000 hrs @ 50°C

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 ±6kV RJ45 ±4kV
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

