

Slim-size 5-Port PoE BT Switch with 1 Giga PoE BT + 3 Giga PoE and 24-54VDC Power Booster for Automation and Vehicle PoE Applications

IDP205G-3GP1GBT-LV

5 Port Giga PoE BT Switch

The **IDP205G-3GP1GBT-LV** is a rugged industrial PoE switch designed for vehicle and automation deployments. Equipped with a **24-54VDC PoE voltage booster**, it efficiently converts lower voltage inputs to provide stable PoE power. Featuring **one Gigabit PoE BT+ port (supporting up to 60W, 802.3bt)** and **three Gigabit PoE ports**, it delivers a **total PoE budget of up to 120W**, ensuring reliable power for high-performance devices like PTZ cameras, wireless APs, and industrial IoT equipment. With **PoE Watchdog** for automatic device recovery and **IP40 protection**, this switch is built for harsh environments, ensuring seamless connectivity in demanding mobile and off-grid applications.



Features & Benefits

Full Gigabit Switching

- 5-port Full-Giga Ethernet with Auto Negotiation
- 2K MAC address table
- Stores and forwards with non-blocking switch fabric
- Switching capacity: 14Gbps for layer 2 application
- Overall packet forwarding rate: 10.416Mpps

Extreme PoE Capability

- Port 1 IEEE 802.3at/at/bt PoE up to 60W
- Port 2~4 IEEE 802.3af/at PoE up to 30W per port
- POE budget 120W (DC48V input), 120W (DC24V input)
- Power Input 24~54VDC with voltage booster

Rugged Mechanical Design

- Robust design protects from mechanical deformation
- IP40 ingress protection to withstand harsh environment
- Wide operating temperature range **-25 ~ 70°C**
- CE marking
- Anti-static (ESD) air $\pm 15\text{KV}$ contact $\pm 8\text{KV}$
- Network port lightning protection: common mode $\pm 4\text{kV}$ differential mode $\pm 2\text{kV}$
- Dual power redundancy



Interfaces

IDP205G-3GP1GBT-LV

Dip Switch

- 1: PoE Watchdog
- 2: Port (1-4) 250 meter transmission
- 3: VLAN Isolation
- 4: VIP Power Supply and QoS

Gigabit Ethernet with PoE

- Port 1: 100/1000MBase-T IEEE 802.3 af/at/bt PoE++
- Port 2-4: 100/1000MBase-T IEEE 802.3 af/at PoE+

Power Connector

- 1 x 3 pin terminal block for Power 1 and Power 2 with shared Negative

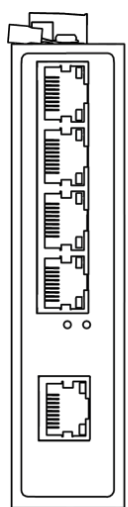
Power LED P1/P2

Gigabit Ethernet

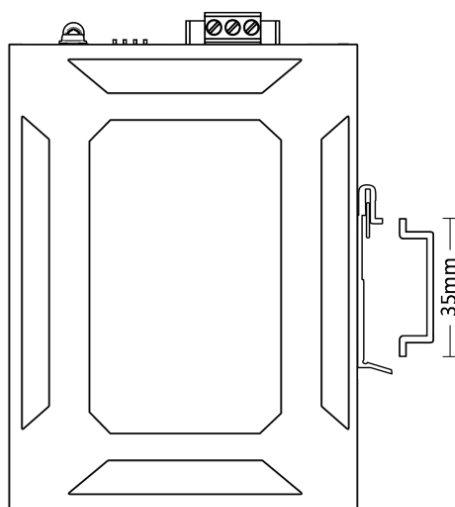
IP40 Metal Enclosure



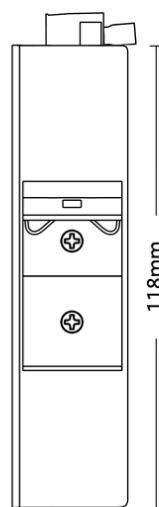
Dimensions



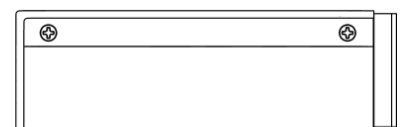
31mm
Front view



91mm
Side view



Back view



Bottom view



Top view



Technology	
Standard	IEEE 802.3af/at/bt Power over Ethernet
	IEEE 802.3 10Base-T Ethernet
	IEEE 802.3u 100Base-TX Fast Ethernet
	IEEE 802.3ab 1000Base-T Gigabit Ethernet Copper
	IEEE 802.3az Energy Efficient Ethernet
Performance	
Switch Technology	Store and Forward Technology with Non-Blocking Switch Fabric
Number of MAC Address	2K
Packet Buffer Memory	1M bits
Switching capacity	14Gbps application level: layer 2
Jumbo Frame	9216 Bytes
Port Isolation	Yes
Watchdog	Yes
Overall packet forwarding rate	10.416Mpps
Interface	
Ethernet Port	5 x 10/100/1000Base-TX RJ45, Auto Negotiation Port 1~4 PoE
System LED	Power 1 / Power 2
Ethernet Port LED	Link (Yellow On), Activity (Yellow Blinking) PoE power feeding: Green on, PoE power not feeding: Off
Power input	3-Pin Removable Terminal Connector (P1+, P2+, P-)
Dip Switch	1: PoE Watchdog 2: Port (1-4) 250 meter transmission 3: VLAN Isolation 4: VIP Power Supply and QoS
Power Requirement	
Input Voltage	DC24V-54V (dual power supply redundant backup)
Reverse Polarity Protect	Yes
Power Consumption	store forward power consumption: < 3W
PoE	
Power forwarding mode	Port 1-4 PoE 802.3at/at: 1/2 + 3/6 - Port 1 PoE 802.3bt: 1/2/4/5 + 3/6/7/8 -
PoE Power Budget	120W (DC48V input),120W (DC24V input)
PoE Mode	Port 1 IEEE 802.3af/at/bt Port 2~4 IEEE 802.3af/at
Mechanical	
Installation	DIN Rail
Enclosure Material	Aluminum alloy metal
Dimension	91 (D) x 118 (H) x 31 mm (W)
Ingress Protection	IP40
Weight	~550g without package

Environmental	
Operating Temperature & Humidity	-25°C~70°C , 5%~95% Non-Condensing
Storage Temperature	-40°C~85°C
MTBF	100,000 hours
Warranty	3 Years
Standard	
CE-EMC	IEC 61000-4-5 Level X (4KV/2KV) (8/20us) IEC 61000-4-5 Level X (4KV/2KV) (10/700us) IEC 61000-4-2 Level 4 (8K/15K)



Ordering Information

Model Name	Description
IDP205G-3GP1GT-LV	Din-rail 5-port Giga PoE++ Switch, 24-54VDC Power Input
	Package List
	1 x Product Unit
	1 x 3-pin Removable Terminal Connector
	1 x Attached Din Clip
	1 x Quick Installation Guide



Optional Accessory

SDR-480P-48	Din Rail Power Supply INPUT:90-264VAC, 120-370VDC, OUTPUT: 48VDC/10A, -25 ~ +70°C
NDR 480-48	Din Rail Power Supply INPUT:90-264VAC, 120-370VDC, OUTPUT: 48VDC/10A, -20 ~ +70°C