Industrial 8-Port PoE plus 2-Port Gigabit Combo Switch

DP1082CG

8-Port 10/100Mbps IEEE802.3 af/at PoE+ Switch

Plus 2-Port Uplink Gigabit Combo (RJ45 / SFP)

- 8-Port IEEE 802.3af/at PoE+ standards (30W per port)

- Supports 250meter extension, and VLAN functions

- Harden Power Terminal Block with 48VDC~57VDC input

- 2 Uplink Gigabit Combo ports with RJ45/SFP connectors

- Wide operating temperature range from -40°C to 75°C

- PoE Over-current, over-voltage, over-temperature protections

FCC   CE   RoHS

OVERVIEW

DP1082CG is a hardened 8-port 10/100Mbps with IEEE802.3af/at PoE+ Switch, plus 2-port uplink Gigabit Combo port with RJ45/SFP connectors.   All the PoE ports may support up to 30W per port basis.   Each of the uplink Gigabit Combo port supports either RJ45 or SFP connector.   It means only one of the connector RJ45/SFP can be linked at a time on Gigabit Ethernet for the COMBO port.   If both RJ45/SFP connectors of the same COMBO port are connected at the same time, the SFP port will be linked with priority.

The DP1082CG also features 250meter Ethernet extension, and VLAN functions.   The slide switch on the front panel is to select FE, EXT, and VLAN functions for Ethernet.   The FE is to set for all the 8 port as standard 10/100Mbps Fast Ethernet.   The EXT is to set for each of the 8 port to link at 10Mbps Ethernet to support up to 250meter cable extension for CAT5e cable. The VLAN is to set for each of the 8 ports as 8 individual isolated ports and to communicate only with the gigabit COMBO ports.

With the terminal block connector, it may provide PoE for 48VDC~57VDC up to 120W/240W power budget.   For each of the 8 ports with PoE function, it all supports over-current, over-voltage, and over-temperature protections
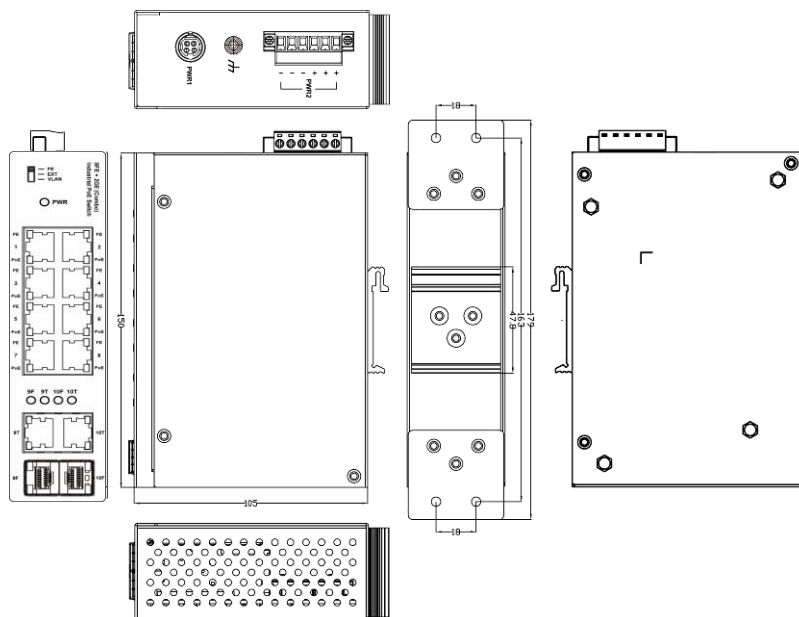
This slim switch is designed with Wall-mountable and/or DIN rail mountable, making installation simple and easy.   It meets with critical network environment with IP30 enclosure and test under extensive Industrial EMI and Safety standards.   It can be used in extreme environments with an operating temperature range of -40°C to 75°C.

FEATURES & BENEFITS

- **System Interface/Performance**
  - RJ-45 port support Auto MDI/MDI-X Function
  - Store-and-Forward Non-Blocking Switching
  - Back-plane Switching Fabric: 4Gbps
  - Packet Buffer Memory: 1M bits
  - 2K MAC address table
  - Jumbo Frame: Max. 1552 bytes
- 8-port 10/100Mbps with IEEE 802.3af/at PoE function (max. 30W per port)
- 2 Gigabit COMBO ports with RJ45/SFP connectors for each COMBO port.
- Supports 250meter Ethernet extenesion at 10Mbps
- Support Virtual LAN (VLAN) with 8xFE to 2xGE.
- 48VDC~57VDC Input Power for Terminal Block up to 120W/240W total PoE power budget

- Metal Housing with DIN Rail and Wall Mount Design
- Support PoE over-current, over-voltage, over-temperature protections
- Supports Wide Operating Temperature (-40°C~75°C)

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DIMENSIONS

SPECIFICATIONS

IEEE Standards	IEEE802.3 10Base-T Ethernet IEEE802.3u 100Base-TX /FX IEEE802.3ab 1000Base-T IEEE802.3z 1000Base-SX/LX IEEE802.3x Flow Control and Back Pressure IEEE 802.3af/at, PoE+		**Gigabit and Act Indicators (COMBO):** Green for 1000Mbps Link, and Activity Amber for 10/100Mbps Link, and Activity	
		Power Input	48~57VDC, for 4-pin Terminal Block connector up to 120W/240W total PoE power budget	
Switch Properties	Back-plane (Switching Fabric): 4Gbps Packet Throughput ability (Full-Duplex): 1,488,100pps @64bytes	Consumption	3.76 Watts (Full load for System Ethernet)	
		PoE Polarity	Pin 1/2 (+), Pin 3/6 (-)	
Transfer Rate	14,881pps for Ethernet port 148,810pps for Fast Ethernet port 1,488,100pps for Gigabit Ethernet port	Operating Humidity	5% to 95% Non-condensing	
		Operating Temperature	-40°C~75°C / -40°F~167°F	
Connectors	10/100/1000BaseT: 8 x RJ-45 with auto MDI/MDIX and IEEE802.3af/at PoE+ function 1000Base-TX: RJ-45 with auto MDI/MDIX 1000Base-FX: Gigabit SFP	Case Dimension	Metal case, IP-30; 44mm(W)x105mm(D)x150mm(H)	
		Weight	620g	
Jumbo Frame	Support 1518 bytes	Storage Temperature	-40°C~85°C / -40°F~185°F	
MAC Address	2K MAC addresses	EMI/EMS	FCC Class A EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11 CE EN55022 Class A, CE EN55024	
Frame Processing	Store-and-Forward			
Protocol	CSMA/CD			
Slide Switch Mode	FE: Normal Fast Ethernet ports x8			
	EXT: 250meter extension at 10Mbps for FE x8	Stability Testing	IEC60068-2-32 (Free fall) IEC60068-2-27 (Shock) IEC60068-2-6 (Vibration)	
	VLAN: Virtual LAN from FEx8 to GEx2 COMBO ports			
LED	**Power Indicator** Green for DC input PWR **LANx8 Indicators** Green/Flash for 10/100M Link/Activity **PoEx8 Indicators** Amber for PoE ON.	Warranty	2 years	
		Order Information	DP1082CG	