

IGPS-1082GP Series

Industrial 10-port unmanaged Gigabit PoE Ethernet switch with 8x10/100/1000Base-T(X)

P.S.E. and 2x100/1000Base-X, SFP socket

Features

- Support 8 ports IEEE 802.3at compliant PoE and total power budget is 120W with maximum 30W per port of 24V model
- Total power budget is 180Watts with maximum 30Watts per port of IGPS-1082GP model
- > Support up to 9.6K Bytes Jumbo Frame
- > Support up to 4Mbit Packet buffer
- Support auto-negotiation and auto-MDI/MDI-X
- > Support store and forward transmission
- Support flow control
- Provided relay output for power failed warning system
- > Provide DIP-switch to setting SFP speed
- Rigid IP-30 housing design
- > DIN-Rail and wall mounting enabled





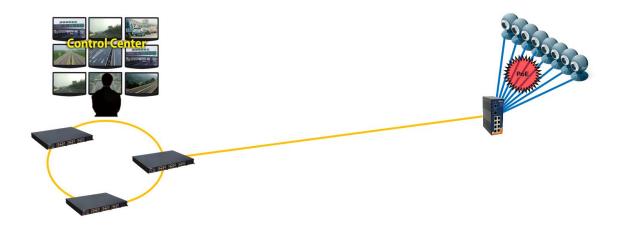
Introduction

IGPS-1082GP series is full Gigabit unmanaged PoE Ethernet switches with 8x10/100/1000Base-T(X) P.S.E. ports and 2x100/1000Base-X SFP ports. IGPS-1082GP series also support Power over Ethernet, a system to transmit electrical power up to **30 watts**, along with data, to remote devices over standard twisted-pair cable in an Ethernet network. Each IGPS-1082GP series switch has 8x10/100/1000Base-T(X) P.S.E. (Power Sourcing Equipment) ports. P.S.E. is a device (switch or hub for instance) that will provide power in a PoE connection. And support wide operating temperature from -40 °C to 75 °C. Therefore, the switch is one of the most reliable choices for rolling stock and highly-unmanaged PoE Ethernet application.

Practical Operation

IGPS-1082GP can be used in connecting several Ethernet devices like Ethernet I/O, IP-Camera or other Ethernet switches. In addition, there are two different power inputs at terminal block to avoid interruption caused by power down. When the primary DC power input fails, the backup power input will take over immediately to guarantee a non-stop operation.

* All specifications are subject to change without notice.



Ethernet Connection

PoE Pin Definition

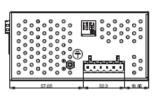
 10/100Base-T(X) P.S.E. RJ-45 port 			
RJ-45 Pin Definition			
Pin No.	Description		
#1	TD+ with PoE Power input +		
#2	TD- with PoE Power input +		
#3	RD+ with PoE Power input -		
#6	RD- with PoE Power input -		

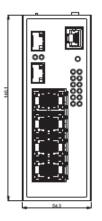
• 1000Base-T P.S.E. RJ-45 port

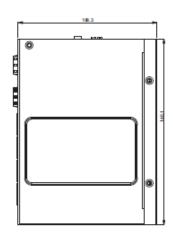
RJ-45 Pin Definition		
Pin No.	Description	
#1	BI_DA+ with PoE Power input +	
#2	BI_DA- with PoE Power input +	
#3	BI_DB+ with PoE Power input -	
#4	BI_DC+	
#5	BI_DC-	
#6	BI_DB- with PoE Power input -	
#7	BI_DD+	
#8	BI_DD-	

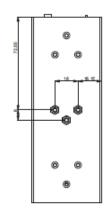
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Dimension

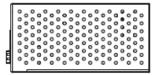












Specifications

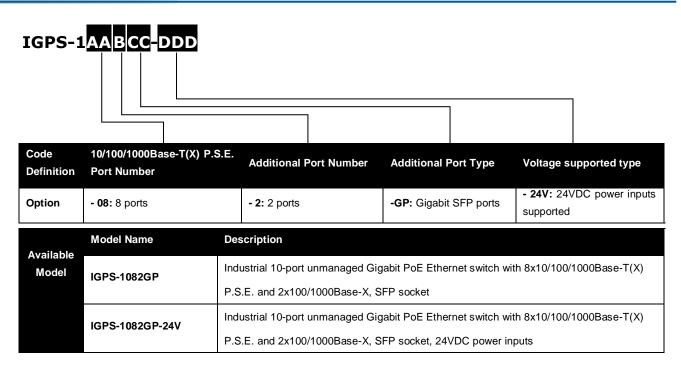
ORing Switch Model	IGPS-1082GP	IGPS-1082GP-24V	
Physical Ports			
10/100/1000Base-T(X) with P.S.E. Ports in RJ45 Auto MDI/MDIX	8 (P.S.E. with IEEE 802.3at)		
100/1000Base-X with SFP port	2		
Technology			
Ethernet Standards	IEEE 802.3 for 10Base-T		
	IEEE 802.3u for 100Base-TX and 100Base-FX		
	IEEE 802.3ab for 1000Base-T		
	IEEE 802.3z for 1000Base-X		
	IEEE 802.3x for Flow control		
	IEEE 802.3af/at PoE specification		
MAC Table	8k		
Processing	Store-and-Forward		
Switch Properties	Switching latency: less than 7us		
	Switching bandwidth: 20Gbps		
Jumbo frame	Up to 9.6K Bytes		
Packet buffer	4Mbit		

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LED indicators			
Power Indicator (PWR)	Green : Power LED x 3		
Fault Indicator (Fault)	Amber : Indicate power failed even warning		
10/100/1000Base-T(X) RJ45 PoE Port	Green for Link/Act indicator		
Indicator	Green for PoE enable indicator.		
100/1000Base-X SFP Port Indicator	Green for port Link/Act.		
DIP Switch			
DIP-Switch 1	Power-2 failed warning : (ON) enable, (OFF) disable		
DIP-Switch 2	Power-1 failed warning : (ON) enable, (OFF) disable		
DIP-Switch 3	DIP switch 3 and 4 (ON) : SFP speed setting to 100Mbps		
DIP-Switch 4	DIP switch 3 and 4 (OFF) : SFP speed setting to 1000Mbps(default)		
Fault contact			
Relay	Relay output to carry capacity of 1A at 24VDC		
Power			
Redundant Input power	Dual DC inputs. 50 ~ 57VDC on 6-pin terminal block	Dual DC inputs. 12 ~ 57VDC on 6-pin terminal block	
Power consumption (Typ.)	11W	11W	
PoE Power budget	180W	60W at 12~24VDC, 120W at 24~57VDC	
Overload current protection	Present		
Reverse Polarity Protection	Present		
Physical Characteristic			
Enclosure	IP-30		
Dimension (W x D x H)	54.3(W) x 108.3(D) x 145.1(H) mm (2.13x4.26x5.71 inches.)		
Weight (g)	889g	916g	
Environmental			
Storage Temperature	-40 to 85°C (-40 to 185°F)		
Operating Temperature	-40 to 75°C (-40 to 167°F)		
Operating Humidity	5% to 95% Non-condensing		
Regulatory approvals			
EMC	EN55032, EN55024(CE EMC), FCC Part 15B, EN61000-3-2, EN61000-3-3		
EMI	CISPR 32, EN55032, FCC Part 15B class A		
EMS	IEC 61000-4-2 (ESD), IEC 61000-4-3 (RS), IEC 61000-4-4 (EFT), IEC 61000-4-5 (Surge), IEC 61000-4-6 (CS), IEC 61000-4-8 (PFMF), IEC 61000-4-11 (DIP)		
Shock	IEC60068-2-27		
Free Fall	IEC60068-2-32		
Vibration	IEC60068-2-6		
Safety	EN60950-1 compliant		
MTBF	TBD TBD		
Warranty	5 years		

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Ordering Information



Packing List

- IGPS-1082GP / -24V x 1
- Quick Installation Guide x 1
- DIN-Rail Kit x 1
- Wall-mount Kit x 2

Optional Accessories

- SFP100 series : 100Mbps SFP optical transceiver
- SFP 1G series : 1Gbps SFP optical transceiver
- DR/SDR/DRP 48/24V Series Din rail power supply

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