# **IGPS-1411GTP-24V**

Industrial 6-port unmanaged Gigabit PoE Ethernet switch with 4x10/100/1000Base-T(X) P.S.E., 1x10/100/1000Base-T(X) and 1x100/1000Base-X, SFP socket, 24VDC power inputs

#### **Features**

- GPS-1411GTP-24V provide 4x10/100/1000Base-T(X) PoE (P.S.E.) ports
- Supports P.S.E. based on IEEE 802.3at standard up to 30 Watts per port
- Support dual wide range 12~36VDC power inputs for power redundancy
- SFP port supports 100Base-FX and 1000Base-X speed
- Supports auto-negotiation and auto-MDI/MDI-X
- Supports store and forward transmission
- Supports flow control
- Rigid IP-30 housing design
- DIN-Rail and wall mounting enabled

















#### Introduction

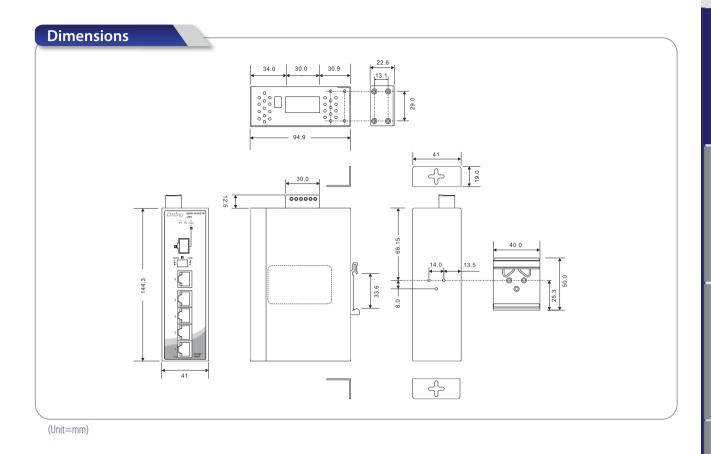
IGPS-1411GTP-24V is an unmanaged PoE Ethernet switch with P.S.E. function. IGPS-1411GTP-24V supports Power over Ethernet, a system to transmit electrical power, along with data, to remote devices over standard twisted-pair cable in an Ethernet network. IGPS-1411GTP-24V has 4x10/100/1000Base-T(X) P.S.E. (Power Sourcing Equipment) ports, 1 additional Gigabit port, and 1x100/1000Base-X SFP port. The SFP port optical network speed can be set by changing the settings of the DIP-Switch below. IGPS-1411GTP-24V supports wide range 12~36VDC power inputs and generates 50VDC P.S.E. power output per port. P.S.E. is a device (switch or hub for instance) that will provide power in a PoE setup. The wide operating temperature range from -40 to 60°C can satisfy most of operating environment. Therefore, the switch is one of the most reliable choices for PoE Ethernet application.

#### **Practical Operation**

IGPS-1411GTP-24V can be used in connecting several PoE P.D. Ethernet devices like IP-Camera or other Ethernet devices. 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.



Connections of Ethernet devices



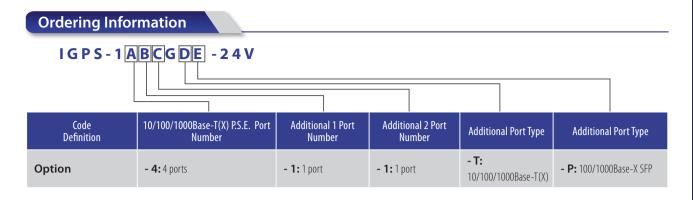
### **PoE Pin Definition**

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-		

## Specifications

Physical Ports			
Infontion0008se=1(X) Ports in RIA5 with PS.E. Auto   MONUMOIX   10/100070008se=1(X) Port in RIA5   Auto MONUMOIX   10/100070008se=X SP port   10   100/10008se=X SP port   10   100/10008se=	ORing Switch Model	IGPS-1411GTP-24V	
MDI/MDIX	Physical Ports		
		4	
EEE 80.2 s for 108ase-T   EEE 80.2 s for 108ase-T   EEE 80.2 as for 108ase-T   EEE 80.2 as for 108ase-T   EEE 80.2 as for 1008ase-T   EEE 80.2 as for 1008ase-T   EEE 80.2 as for 1008ase-T   EEE 80.2 as for 10008ase-T   EEE 80.2 as for 10008ase-T		1	
Ethenet Standards         IEE 802 3 for 1080ase-T I IEE 802 3 ab for 1008base-T I IEE 802 3 ab	100/1000Base-X SFP port	1	
EEE 00.23 In for 1008ase=T   IEEE 00.23 In for 1008ase=A   IEE 00.23 In IEE 00	Technology		
Processing         Store-and-Forward           LED Indicators           Power Indicator         Green : Power LED x2           Fault Indicator         Amber : Indicate PWR1 or PWR2 failure           01/10/01/0008ase-T(X) RJ45 port indicator and Pol Indicator (P1 ~ P4)         Green for port Link/Act. Green for power injected.           10/10/01/0008ase-T(X) RJ45 port Indicator (P5)         Green for power injected.           10/10/01/008ase-X SFP port indicator         Green for port Link/Act. Amber for 1000Mbps Indicator           SFP Speed DIP-Switch         DIP-Switch 1/Q           DIP-Switch 1/Z         DIP-Switch 1 (OR) and DIP-Switch 2 (OR) : SFP speed setting to 1000Mbps DIP-S	Ethernet Standards	IEEE 802.3u for 100Base-TX IEEE 802.3ab for 1000Base-T IEEE 802.3z for 1000Base-X IEEE 802.3x for Flow control	
Power Indicators   Green : Power LED x 2   Fault Indicator   Amber : Indicator Power LED x 2   Green for powt LIDx ACT	MAC Table	1K MAC addresses	
Power Indicator         Green: Power LED x 2           Fault Indicator         Amber: Indicate PWR1 or PWR2 failure           10/100/1000Rase-T(X) RJ45 port indicator and Poblindicator (P1 ~ P4)         Green for port Link/Act. Green for port Link/Act. Amber for 100Mbps Indicator           100/1000Rase-X SFP port indicator         Green for port Link/Act. Amber for 100Mbps Indicator           SFP Speed DIP-Switch           DIP-Switch 1/2           DIP-Switch 1 (0PF) and DIP-Switch 2 (0N): SFP speed setting to 100Mbps DIP-Switch 1 (0PF) and DIP-Switch 2 (0NF): SFP speed setting to 100Mbps DIP-Switch 1           Power-1 failed warning: (0N) enable, (0FF) disable           Fault contact           Relay         Relay output to carry capacity of 1A at 24VDC           Power consumption (Typ.)         6.5 Watts (power device not included)           Power consumption (Typ.)         6.5 Watts (power device not included)           Persent         Reverse polarity protection         Present	Processing	Store-and-Forward	
Fault Indicator Amber : Indicate PWR1 or PWR2 failure  10/100/1000Base-T(X) RJ45 port Indicator and PoE Indicator (P1 ~ P4) Green for power injected. Amber : Indicator (P1 ~ P4) Green for power injected. Amber injected. Amber for 100Mbps Indicator Green for power injected. Amber for 100Mbps Indicator  100/1000Base-X 5FP port Indicator Green for port Link/Act. Amber for 100Mbps Indicator  100/1000Base-X 5FP port indicator  5FP Speed DIP-Switch  DIP-Switch 1 (0N) and DIP-Switch 2 (0N): SFP speed setting to 100Mbps DIP-Switch 1 (0N) and DIP-Switch 2 (0FF): SFP speed setting to 100Mbps DIP-Switch 1 (0FF) and DIP-Switch 2 (0FF): SFP speed setting to 100Mbps DIP-Switch 1 Power-1 failed warning: (0N) enable, (0FF) disable DIP-Switch 2 Power-2 failed warning: (0N) enable, (0FF) disable  Fault contact  Relay Relay output to carry capacity of 1A at 24VDC Power  Redundant Input power  Redundant Input power  Redundant Input power  Power consumption (Typ.)  6.5 Watts (power device not included)  Overload current protection  Present  Reverse polarity protection  Not Present  Physical Characteristics  Enclosure  IP-30 Dimensions (W x D x H)  Weight (g)  Environmental  Storage temperature  40 to 85°C (-40 to 185°F)  Operating temperature  40 to 60°C (-40 to 140°F)	LED Indicators		
10/100/1000Base-T(X) R145 port indicator and PoE Indicator (P1 ~ P4)   Green for port Link/Act. Green for power injected.   Green for power injected.   Green for power injected.   Green for powt Link/Act. Amber for 100Mbps Indicator	Power Indicator	Green: Power LED x 2	
Indicator (P1 ~ P4)         Green for power injected.           10/100/1000Base-T(X) RJ45 port Indicator (P5)         Green for port Link/Act. Amber for 100Mbps Indicator           100/1000Base-X SFP port indicator         Green for port Link/Act.           SFP Speed DIP-Switch           DIP-Switch 1 (ON) and DIP-Switch 2 (ON) : SFP speed setting to 100Mbps DIP-Switch 1 (OFF) and DIP-Switch 2 (OFF) : SFP speed setting to 100Mbps DIP-Switch 1 (OFF) and DIP-Switch 2 (OFF) disable           Power-1 failed warning: (ON) enable, (OFF) disable           DIP-Switch 1           Power-2 failed warning: (ON) enable, (OFF) disable           Power-2 Failed warning: (ON) enable, (OFF) disable <th c<="" th=""><td></td><td>Amber: Indicate PWR1 or PWR2 failure</td></th>	<td></td> <td>Amber: Indicate PWR1 or PWR2 failure</td>		Amber: Indicate PWR1 or PWR2 failure
Amber for 100Mbps Indicator  100/1000Base-X SFP port indicator  SFP Speed DIP-Switch  DIP-Switch 1/2  DIP-Switch 1 (OFF) and DIP-Switch 2 (OFF): SFP speed setting to 100Mbps DIP-Switch 1 (OFF) and DIP-Switch 2 (OFF): SFP speed setting to 1000Mbps  Relay Output DIP-Switch  DIP-Switch 1  Power-1 failed warning: (ON) enable, (OFF) disable  DIP-Switch 2  Power-2 failed warning: (ON) enable, (OFF) disable  Fault contact  Relay  Relay output to carry capacity of 1A at 24VDC  Power  Redundant Input power  Dual DC inputs. 12~36VDC on 6-pin terminal block  Power consumption (Typ.)  Overload current protection  Present  Reverse polarity protection  Present  Reverse polarity protection  Not Present  Physical Characteristics  Enclosure  Dimensions (W x D x H)  Weight (g)  580 g  Environmental  Storage temperature  -40 to 85°C (-40 to 185°F) -40 to 60°C (-40 to 140°F)		Green for power injected.	
SFP Speed DIP-SwitchDIP-Switch 1/2DIP-Switch 1 (ON) and DIP-Switch 2 (ON): SFP speed setting to 100Mbps DIP-Switch 1 (OFF) and DIP-Switch 2 (OFF): SFP speed setting to 1000MbpsRelay Output DIP-SwitchPower-1 failed warning: (ON) enable, (OFF) disableDIP-Switch 2Power-2 failed warning: (ON) enable, (OFF) disableFault contactRelayRelay output to carry capacity of 1A at 24VDCPowerPowerRedundant Input powerDual DC inputs. 12~36VDC on 6-pin terminal blockPower consumption (Typ.)6.5 Watts (power device not included)Overload current protectionPresentReverse polarity protectionNot PresentPhysical CharacteristicsIP-30Dimensions (W x D x H)41 (W) x 94.9 (D) x 144.3 (H) mmWeight (g)580 gEnvironmental580 gEnvironmental40 to 65°C (-40 to 185°F)Operating temperature-40 to 60°C (-40 to 140°F)	10/100/1000Base-T(X) RJ45 port Indicator (P5)	Amber for 100Mbps Indicator	
DIP-Switch 1 (ON) and DIP-Switch 2 (ON): SFP speed setting to 100Mbps DIP-Switch 1 (OFF) and DIP-Switch 2 (OFF): SFP speed setting to 1000Mbps DIP-Switch 1 Power-1 failed warning: (ON) enable, (OFF) disable DIP-Switch 2 Power-2 failed warning: (ON) enable, (OFF) disable  Fault contact  Relay Relay output to carry capacity of 1A at 24VDC  Power  Redundant Input power Dual DC inputs. 12~36VDC on 6-pin terminal block  Power consumption (Typ.) 6.5 Watts (power device not included)  Overload current protection Present  Reverse polarity protection Not Present  Physical Characteristics  Enclosure IP-30 Dimensions (W x D x H) 41 (W) x 94.9 (D) x 144.3 (H) mm  Weight (g) 580 g  Environmental  Storage temperature -40 to 85°C (-40 to 185°F) Operating temperature -40 to 60°C (-40 to 140°F)	-	Green for port Link/Act.	
DIP-Switch 1 (OFF) and DIP-Switch 2 (OFF) : SFP speed setting to 1000Mbps         Relay Output DIP-Switch 1         Power 1 failed warning : (ON) enable, (OFF) disable         Fault contact         Relay       Relay output to carry capacity of 1A at 24VDC         Power         Redundant Input power       Dual DC inputs. 12 ~ 36VDC on 6-pin terminal block         Power consumption (Typ.)       6.5 Watts (power device not included)         Overload current protection       Present         Reverse polarity protection       Not Present         Physical Characteristics         Enclosure       IP-30         Dimensions (W x D x H)       41 (W) x 94.9 (D) x 144.3 (H) mm         Weight (g)       580 g         Environmental         Storage temperature       -40 to 85°C (-40 to 185°F)         Operating temperature       -40 to 60°C (-40 to 140°F)	SFP Speed DIP-Switch		
DIP-Switch 1Power-1 failed warning: (ON) enable, (OFF) disableDIP-Switch 2Power-2 failed warning: (ON) enable, (OFF) disableFault contactRelayRelay output to carry capacity of 1A at 24VDCPowerPowerRedundant Input powerDual DC inputs. 12~36VDC on 6-pin terminal blockPower consumption (Typ.)6.5 Watts (power device not included)Overload current protectionPresentReverse polarity protectionNot PresentPhysical CharacteristicsP-30Dimensions (W x D x H)41 (W) x 94.9 (D) x 144.3 (H) mmWeight (g)580 gEnvironmental580 gEnvironmental-40 to 85°C (-40 to 185°F)Operating temperature-40 to 60°C (-40 to 140°F)		DIP-Switch 1 (ON) and DIP-Switch 2 (ON): SFP speed setting to 100Mbps DIP-Switch 1 (OFF) and DIP-Switch 2 (OFF): SFP speed setting to 1000Mbps	
DIP-Switch 2       Power-2 failed warning: (ON) enable, (OFF) disable         Fault contact         Relay       Relay output to carry capacity of 1A at 24VDC         Power         Redundant Input power       Dual DC inputs. 12~36VDC on 6-pin terminal block         Power consumption (Typ.)       6.5 Watts (power device not included)         Overload current protection       Present         Reverse polarity protection       Not Present         Physical Characteristics         Enclosure       IP-30         Dimensions (W x D x H)       41 (W) x 94.9 (D) x 144.3 (H) mm         Weight (g)       580 g         Environmental         Storage temperature       -40 to 85°C (-40 to 185°F)         Operating temperature       -40 to 60°C (-40 to 140°F)			
Fault contact         Relay       Relay output to carry capacity of 1A at 24VDC         Power       Power         Redundant Input power       Dual DC inputs. 12~36VDC on 6-pin terminal block         Power consumption (Typ.)       6.5 Watts (power device not included)         Overload current protection       Present         Reverse polarity protection       Not Present         Physical Characteristics       IP-30         Dimensions (W x D x H)       41 (W) x 94.9 (D) x 144.3(H) mm         Weight (g)       580 g         Environmental       5torage temperature         Operating temperature       -40 to 85°C (-40 to 185°F)         Operating temperature       -40 to 60°C (-40 to 140°F)		•	
Relay Relay output to carry capacity of 1A at 24VDC   Power Redundant Input power Dual DC inputs. 12~36VDC on 6-pin terminal block   Power consumption (Typ.) 6.5 Watts (power device not included)   Overload current protection Present   Reverse polarity protection Not Present   Physical Characteristics IP-30   Dimensions (W x D x H) 41 (W) x 94.9 (D) x 144.3 (H) mm   Weight (g) 580 g   Environmental 5torage temperature -40 to 85°C (-40 to 185°F)   Operating temperature -40 to 60°C (-40 to 140°F)		Power-2 failed warning: (UN) enable, (UFF) disable	
PowerRedundant Input powerDual DC inputs. 12~36VDC on 6-pin terminal blockPower consumption (Typ.)6.5 Watts (power device not included)Overload current protectionPresentReverse polarity protectionNot PresentPhysical CharacteristicsEnclosureIP-30Dimensions (W x D x H)41 (W) x 94.9 (D) x 144.3 (H) mmWeight (g)580 gEnvironmental5torage temperature-40 to 85°C (-40 to 185°F)Operating temperature-40 to 60°C (-40 to 140°F)			
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Power consumption (Typ.)6.5 Watts (power device not included)Overload current protectionPresentReverse polarity protectionNot PresentPhysical CharacteristicsEnclosureIP-30Dimensions (W x D x H)41 (W) x 94.9 (D) x 144.3 (H) mmWeight (g)580 gEnvironmentalStorage temperature-40 to 85°C (-40 to 185°F)Operating temperature-40 to 60°C (-40 to 140°F)			
Overload current protectionPresentReverse polarity protectionNot PresentPhysical CharacteristicsEnclosureIP-30Dimensions (W x D x H)41 (W) x 94.9 (D) x 144.3 (H) mmWeight (g)580 gEnvironmentalStorage temperature-40 to 85°C (-40 to 185°F)Operating temperature-40 to 60°C (-40 to 140°F)			
Reverse polarity protection  Physical Characteristics  Enclosure  IP-30  Dimensions (W x D x H)  Weight (g)  Environmental  Storage temperature  -40 to 85°C (-40 to 140°F)  All (W) x 94.9 (D) x 144.3 (H) mm  -40 to 60°C (-40 to 140°F)	,		
Physical Characteristics           Enclosure         IP-30           Dimensions (W x D x H)         41 (W) x 94.9 (D) x 144.3 (H) mm           Weight (g)         580 g           Environmental           Storage temperature         -40 to 85°C (-40 to 185°F)           Operating temperature         -40 to 60°C (-40 to 140°F)	' ·		
Enclosure         IP-30           Dimensions (W x D x H)         41 (W) x 94.9 (D) x 144.3 (H) mm           Weight (g)         580 g           Environmental           Storage temperature         -40 to 85°C (-40 to 185°F)           Operating temperature         -40 to 60°C (-40 to 140°F)	1 71	Not Present	
Dimensions (W x D x H)       41 (W) x 94.9 (D) x 144.3 (H) mm         Weight (g)       580 g         Environmental         Storage temperature       -40 to 85°C (-40 to 185°F)         Operating temperature       -40 to 60°C (-40 to 140°F)			
Weight (g)         580 g           Environmental         -40 to 85°C (-40 to 185°F)           Operating temperature         -40 to 60°C (-40 to 140°F)			
Environmental           Storage temperature         -40 to 85°C (-40 to 185°F)           Operating temperature         -40 to 60°C (-40 to 140°F)	·		
Storage temperature         -40 to 85°C (-40 to 185°F)           Operating temperature         -40 to 60°C (-40 to 140°F)		osu g	
Operating temperature -40 to 60°C (-40 to 140°F)		40. 000C / 40. 400C)	
		·	
Regulatory Approvals		5% to 95% Non-condensing	
5 7 11	* * * * * * * * * * * * * * * * * * * *	FCC Dark 1F (ICDD /FNFF022) class A	
EMI         FCC Part 15, CISPR (EN55022) class A           EMS         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		EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8,	
Shock IEC60068-2-27	Shock		
Free Fall   IEC60068-2-32			
Vibration         IEC60068-2-6			
Safety EN60950-1			
Warranty 5 years	·		



Available	Model Name	Description
Model	IGPS-1411GTP-24V	Industrial 6-port unmanaged Gigabit PoE Ethernet switch with 4x10/100/1000Base-T(X) P.S.E, 1x10/100/1000Base-T(X) and 1x100/1000Base-X, SFP socket, 24V power inputs
Packing List  • IGPS-1411GTP-24V  • DIN-Rail Kit  • Wall-mount Kit  • Quick Installation Guide		Optional Accessories (Can be purchased separately)  • SFP100 series: 100Mbps SFP optical transceiver  • SFP 1G series: 1Gbps SFP optical transceiver  • DR-45-12/24, 45 Watts DIN-Rail power supply  • DR-75-12/24, 75 Watts DIN-Rail power supply  • DR-120-12/24, 120 Watts DIN-Rail power supply