

IPGS-0016

16 10/100/1000T PoE at/af Industrial Unmanaged Ethernet Switch

- Support IEEE802.3at/af up to 30W per port
- Dual 9V~36VDC input compliant with ISO 7637-2 (24V model)
- Dual 44~56VDC input (48V model)
- Galvanic isolation protection (power input /Ethernet port to system/case ground; power input to Ethernet port)
- Max PoE budget 100W at 24V input; 240W at 48V input
- Relay alarm output for power fail and alarm
- E-marking certificate for vehicle application (-24V model)





OVERVIEW

Lantech IPGS-0016 is a high performance 16 10/100/1000T industrial Ethernet switch with w/16 PoE 802.3af/at ports.

Galvanic isolation for dual 24V/48V wide input range

The IPGS-0016 supports IEEE802.3af/at standard which can feed HI-power up to 30W at each PoE port for big power consumption devices like PTZ IP camera, high power wireless AP etc.

The IPGS-0016-24V accepts power input 9~36VDC and is compliant with ISO 7637-2* which protects switch from being damaged by high voltage that could be found at vehicle cranky start.

48V model accept 45~56VDC power input and can feed 48V output for PoE feeding in vehicle at max 240W @48V input.

E-marking certificate, High reliability and extended working temperature

Lantech IPGS-0016 provides ±2000V EFT and ±6000V ESD protection, which can reduce unstable situation caused by power line and Ethernet. It has high reliability and robustness coping with extensive EMI/RFI phenomenon, environmental vibration and shocks usually found in Automation, transportation, Wireless backhaul, Semi-conductor factory and assembly lines.

The -E model can be used in extreme environments with an operating temperature range of -40°C to 75°C.

The E-marking certificate makes it the most suitable switch for bus, carriage, other vehicles application as well as for industrial areas.

FEATURES & BENEFITS

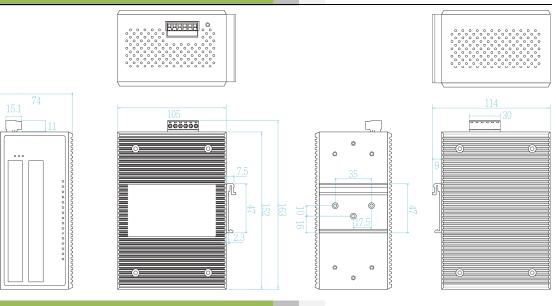
- 16 10/100/1000T industrial Ethernet switch w/16 PoE 802.3af/at ports (Total 16 Ports Switch)
- PoE budget 100W at 24V input; 240W at 48V input
- Dual 9V~36VDC with ISO7637-2 compliance (24V model)
- Dual 44~56VDC input (48V model)
- Back-plane (Switching Fabric): 32Gbps
- Provides EFT protection ±2000 VDC for power line
- Supports ±6000 VDC Ethernet ESD protection

 Galvanic isolation between power input and system/case ground; between Ethernet port and system/case ground; between power input and Ethernet port

- E-marking certificate for vehicle application (-24V model)
- Relay alarm output for power fail and alarm
- IP30 metal housing with DIN rail and Wall-mount** design



DIMENSIONS (unit=mm)



SPECIFICATION

Hardware S	pecification		End-point, Alternative A mode. Per port provides up to
Standards	IEEE802.3 10Base-T Ethernet		30W. (-14 model RJ-45 port # 1~#14 support IEEE
	IEEE802.3u 100Base-TX		802.3at/af End-point, Alternative A mode. Per port
	IEEE802.3x Flow Control and Back Pressure		provides up to 30W)
	IEEE802.3af/at Power over Ethernet		Positive (VCC+): RJ-45 pin 1,2
Switch Architecture	Back-plane (Switching Fabric): 32Gbps		Negative (VCC-): RJ-45 pin 3,6
Transfer Rate	14,880pps for Ethernet port	Power	15W exclude PoE loads
	148,800pps for Fast Ethernet port	Consumption	
Mac Address	16K MAC address table	Galvanic Isolation	Between power input and system/case ground
Connectors	10/100/1000T: 16 x ports RJ-45 with Auto MDI/MDI-X		Between Ethernet port and system/case ground
	function		Between power input and Ethernet port
	Power & P-Fail connector: 1 x 6-pole terminal block	Case Dimension	Metal case IP-30
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5/ 5E/ 6 cable		74 (W) x 105 (D) x 152 (H) mm
	EIA/TIA-568 100-ohm (100m)	Weight	900 g
	100Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6 cable	Installation	DIN Rail and Wall Mount** Design
	EIA/TIA-568 100-ohm (100m)	Relay Alarm	Provides one relay output for power fail and alarm.
	1000Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6 cable		Alarm Relay current carry ability: 1A @ DC24V
	EIA/TIA-568 100-ohm (100m)	EMI & EMS	FCC Class A, CE EN55011,
LED	Per unit: Power 1 (Green), Power 2 (Green), P-Fail		CE EN55032, CE EN55024,
	(Red);		CE EN61000-4-2, CE EN61000-4-3,
	Ethernet port: Link/Activity (Green)		CE EN61000-4-4, CE EN61000-4-5,
Operating Humidity	5% ~ 95% (Non-condensing)		CE EN61000-4-6, CE EN61000-4-8,
Operating	-20°C~60°C / -4°F~140°F (Standard model)		CE EN61000-6-2, CE EN61000-6-4
Temperature	-40°C~75°C / -40°F~167°F(-E model)	Safety	IEC/BS EN IEC 62368-1 2020/A11:2020
Storage	-40°C~85°C / -40°F~185°F	Vehicle certificate	E-Marking with E24 granted approval (-24V model)
Temperature			Power input range 16.8~36VDC
Power Supply	Dual 9~36VDC (24V model)	MTBF	908,270 hrs (standards: IEC 62380)
	Dual 44~56VDC (48V model)	Warranty	5 years
PoE Budget	240W at 48V input; 100W at 24V input; 80W at 12V		*Future Release
	input		**Optional
	(50-57VDC input is recommended for 802.3at 30W		
	applications)		
	Higher PoE budget can be applied upon request. **		
PoE pin assignment	RJ-45 port # 1~#16 support IEEE 802.3at/af		

ORDERING INFORMATION

IPGS-0016-24V......P/N: 8351-126 16 10/100/1000T w/16 PoE at/af up to 30W Industrial Ethernet Switch, dual 9V~36VDC input; compliant with ISO7637-2; -20°C to 60°C

IPGS-0016-14-24V.....P/N: 8351-1261

16 10/100/1000T w/14 PoE at/af up to 30W Industrial Ethernet Switch, dual 9V~36VDC input; compliant with ISO7637-2; -20°C to 60°C

Datasheet Version 1.55 www.lantechcom.tw | info@lantechcom.tw RP-001-26 A0

Industrial Unmanaged PoE Series



- IPGS-0016-48V......P/N: 8351-1262 16 10/100/1000T w/16 PoE at/af up to 30W Industrial Ethernet Switch, dual 44V~56VDC input; -20°C to 60°C
- 16 10/100/1000T w/14 PoE at/af up to 30W Industrial Ethernet Switch, dual 44V~56VDC input; -20°C to 60°C IPGS-0016-24V-E......P/N: 8351-127

16 10/100/1000T w/16 PoE at/af up to 30W Industrial Ethernet Switch, dual 9V~36VDC input, compliant with ISO7637-2; -40°C to 75°C

- IPGS-0016-14-24V-E......P/N: 8351-1271 16 10/100/1000T w/14 PoE at/af up to 30W Industrial Ethernet Switch, dual 9V~36VDC input, compliant with ISO7637-2; -40°C to 75°C
- IPGS-0016-48V-E......P/N: 8351-1272
 16 10/100/1000T w/16 PoE at/af up to 30W Industrial Ethernet Switch, dual 44V~56VDC input; -40°C to 75°C
- IPGS-0016-14-48V-E......P/N: 8351-1273
 16 10/100/1000T w/14 PoE at/af up to 30W Industrial Ethernet Switch, dual 44V~56VDC input; -40°C to 75°C

All part no. with WALL are models with wall mount kit instead of DIN Rail

OPTIONAL ACCESSORIES

DIN Rail Power

- NDR-480 Series 480W Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC Input Range; Cooling by free air convection; RoHS2; Operating Temp. -20°C~70°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)
 NDR-240 Series 240W Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC Input Range; Cooling by free air convection; RoHS2; Operating Temp. -20°C~70°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)
 NDR-120 Series 120W Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC Input Range; Cooling by free air convection; RoHS2; Operating Temp. -20°C~70°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)
 NDR-120 Series 120W Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC Input Range; Cooling by free air convection; RoHS2 ;
- NDR-120 Series
 12/07/00C input Range; Cooling by free air convection; ROHS2;
 Operating Temp. -20°C ~70°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C; For 115VAC, please refer to
 derating curve on NDR-120 Series datasheet)
- NDR-75 Series 75W Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC Input Range; Cooling by free air convection; RoHS2; Operating Temp. -20°C~70°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C; For 115VAC, please refer to derating curve on NDR-120 Series datasheet)

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