



# 5-Port Solar Powered PoE Switch with SFP, DC12V/24V/36 Input, Boost 90W PoE++ Output



IES7211-4PGE1GF-BT-SOL

## Key Features:

- Ports:** Provide 4\*Gigabit PoE++ ports, 1\*Gigabit RJ45 Uplink
- PoE Standard:** IEEE802.3af/at/bt Power over Ethernet (PoE) Compliant Up to 90W
- Power Voltage:** Ultra wide pressure input DC 9V~54V
- Self-adaption:** RJ45 port supports 10/100/1000Mbps Auto MDI/MDIX.
- Wide Application:** Designed for Wifi AP and IP Security camera.VoIP etc
- Surge protection:** Protect the device from lighting surges and others electrical hazards
- Working Temperature:** -40 to 75 degrees operating temperature
- Considerate Design:** IP40 Industrial design with dual power input

## 12V/24V/36V to 54V Boost PoE++ Conversion

This boost PoE switch features integrated voltage boosting. It accepts ANY 9-54V DC input - harnessing solar panels (12V), vehicle batteries (12V), building power (24V), or industrial systems (36/48/54V) to power it. And output 4-Port 802.3bt PoE++ .



<b>PoE++ (802.3bt)</b> up to 60 W per port				
<b>PoE+ (802.3at)</b> up to 30 W per port				
<b>PoE (802.3af)</b> up to 15.4 W per port				

## Up to 90W PoE++ PoE Output

Delivers up to 90W per port via IEEE 802.3bt PoE++ across 4 ports. Powers high-demand devices like PTZ cameras, Wi-Fi 6 APs, and LED boards over a single cable. Reduces wiring complexity and ensures reliable power delivery for surveillance and enterprise networks.

## Extreme Environment Ready

This outdoor boost poe switch's IP40 dustproof shield defends against sandstorms. Survives punishing -40°F to 167°F (-40°C to 75°C) swings—from Alaska winters to Arizona summers. No weather downtime on oil rigs, construction sites or remote towers.



# IES7211-4PGE1GF-BOS

5-Port Solar Powered Boost PoE Switch with SFP, DC 9~54V Input, PoE++ Output

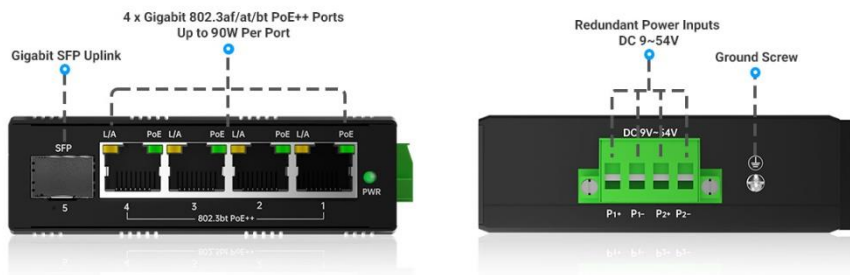
## Technical Datasheet

<b>Model</b>	<b>IES7211-4PGE1GE-BOS</b>
<b>Hardware Specifications</b>	
Connector	4* 10/100/1000BASE-T RJ45 auto MDI/MDIX ports 1* 1.25G Base-X SFP Slots
PoE Port	4* PoE+ PSE port (Up to 90W)
LED indicators	Power Indicator: PWR(green). Network Indicator: Link/ACT(Yellow) PoE Working Indicator: PoE(green)
Power Connector	Removable 4-pin terminal block Pin 1+/2- for Power 1; Pin 3+/4- for Power 2
Power Requirements	9~54V DC, 6A (max.)
Power Consumption	Max. 3 watts (system on) Max. 320 watts (Full loading)
ESD Protection	Contact Discharge 6KV DC, Air Discharge 8KV DC
Enclosure	IP40 aluminum case
Thermal Fan	Fanless Design
Installation	Din Rail
Dimension(WxDxH)	30mm x 78mm x 95mm(1.18in x 3.07in x 3.74in)
Weight	0.3Kg
<b>Switching Specifications</b>	
Network standard	IEEE802.3i 10 BASE-T IEEE802.3u 100 BASE-TX IEEE802.3ab 1000BASE-T IEEE802.3z 1000BASE-X IEEE802.3x Flow Control
Switch Architecture	Store and Forward
Backplane bandwidth	10Gbps
Packet forwarding rate	7.44Mpps
MAC address	2k
Shared Data Buffer	4.1 megabits
Jumbo Frame	10 Kbytes
Flow Control	IEEE802.3X full-duplex and Backpressure half-duplex
<b>Environment</b>	
Safety	FCC Part15 Class A,CE.RoHs
Stability Testing	IEC 60068-2-32 (free fall) IEC 60068-2-27 (shock) IEC 60068-2-6 (vibration)
Environment specification	Operating temperature: -40℃~75℃, operating humidity: 5%~95% Storage temperature: -40℃~75℃, storage humidity: 5%~95%

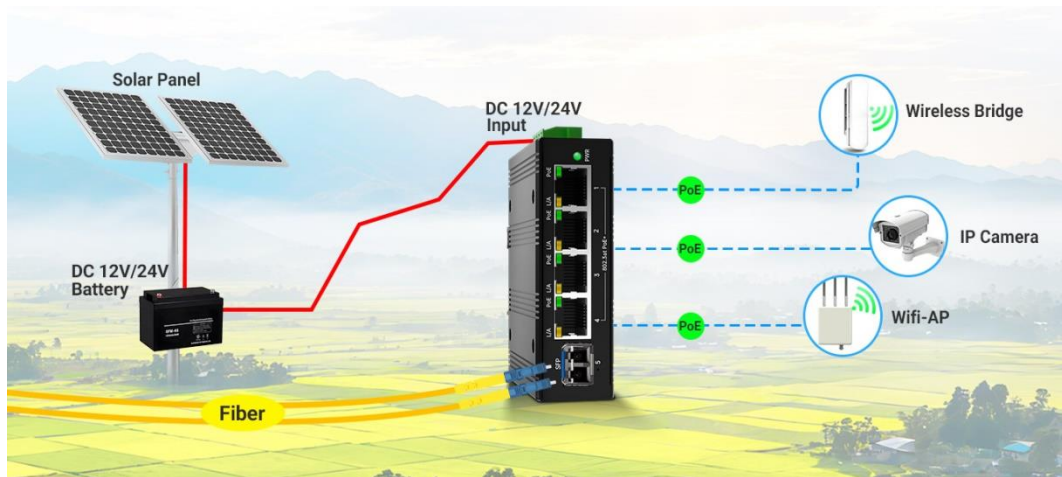
## Power over Ethernet (PoE) Specifications

PoE Standard	IEEE 802.3af Power over Ethernet/PSE
	IEEE 802.3at Power over Ethernet Plus/PSE
	IEEE 802.3bt Power over Ethernet Plus Plus /PSE
PoE Supply Type	1/2/4/5 (+), 3/6/7/8 (-)
PoE Power Output	IEEE 802.3at Standard
	Per port 48V~52V DC, max. 30 watts
	IEEE 802.3bt Standard
	Per port 52V~54V DC, max. 90 watts
PoE Power Budget	DC 12V input: PoE Output Total Budget: 75W
	DC 24V input: PoE Output Total Budget: 140W
	DC 48V input: PoE Output Total Budget: 280W
	DC 54V input: PoE Output Total Budget: 320W

## Interface indication



## Application



## Ordering Information

IES7211-4PGE1GF-BOS	5 Ports 10/100/1000Mbps boost PoE++ switch with SFP Uplink, IEEE802.3af/at/bt, DC12~54V Input, 6KV surge protection, DIN-Rail Mount
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