



Gigabit PoF Splitter

DC 12V and Standard PoE

Dual Powering Modes

Plug & Play



802.3at
PoE+
802.3af

6KV
Lightning Protection





POF-SPL-1GP12V

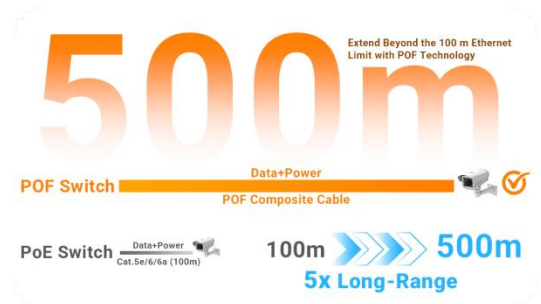


Key Features:

- Ports:** 1 x 1G PoF (data + power over hybrid SC cable), 1 x RJ45 (PoE out) , 1x DC Barrel Jack (12V out)
- PoE budget:** Up to 30W (IEEE 802.3af/at compliant), 15W Real Net Power (After 500m pof)
- DC Power budget:** 15W Real Net Power
- Dual Powering Modes:** Delivers both standard DC 12V output and standard RJ45 Gigabit PoE power simultaneously.
- Max Distance:** 500 meters (with certified YD/T 4305.1-2023 hybrid optical cable)
- Enclosure & Protection:** Rugged Fanless Metal Housing; IP40 Protection Grade; Compact Form Factor
- Installation Mount:** Heavy-Duty Wall-Mount (Optimized size for tight outdoor equipment boxes)
- Configuration:** Unmanaged Hardware Level Conversion; Pure Plug-and-Play (Zero setup required)

Cost-Effective 500m PoF: Full Power+Data at Gigabit Speed

Delivers 1G data + up to 30W DC power over one SC-type hybrid cable, compliant with YD/T 4305.1-2023. Ideal for schools, clinics, or municipalities deploying standard IP cameras, VoIP phones, or 1G Wi-Fi 5/6 APs. Benefit: Achieve 500m powered connectivity at lower TCO — perfect for large-scale rollouts across 100+ sites.



Mode A - Gigabit RJ45 PoE Output

The splitter decodes the incoming powered stream and converts it directly into standard IEEE 802.3af/at adaptive Power over Ethernet (PoE) via a standard RJ45 port. This allows instant, single-cable plug-and-play hookups for modern enterprise wireless APs and HD IP fixed or dome surveillance cameras.

Mode B - Common Circular DC 12V Barrel Jack

For industrial telemetry sensors, older analog/IP bullet cameras, or edge network routing gateways that do not natively support PoE, the splitter channels steady electricity out through a dedicated, heavy-duty circular DC 12V barrel jack, ensuring total cross-generation hardware compatibility.



POF-SPL-1GP12V

Gigabit PoF Splitter

Technical Datasheet

Model	POF-SPL-1GP12V
Hardware Specifications	
Connector	1* 1.25G optoelectronic composite PoF ports (PoF In) 1* 10/100/1000M RJ45 (PoE Out) 1* DC Barrel Jack (DC 12V Out)
PoF Port	1* SC-type hybrid
LED indicators	Power Indicator: PWR(green). FoF Indicator: Fiber(green). Network Indicator: L/A (yellow) PoE Working Indicator: PoE (green)
Power Connector	Optoelectronic composite PoF ports
Power Requirements	PoF Only
Power Consumption	1.8 watts (system on)
ESD Protection	Contact Discharge 6KV DC, Air Discharge 8KV DC
Enclosure	Aluminium case, IP40, Wall-mount
Dimension(WxDxH)	26.2mm x 26.6mm x 85mm
Weight	< 0.15Kg
Switching Specifications	
Network standard	IEEE802.3i 10 BASE-T IEEE802.3u 100 BASE-TX IEEE802.3ab 1000BASE-T IEEE802.3x Flow Control IEEE 802.3az Energy Efficient Ethernet (EEE)
Switch Architecture	Store and Forward
PoF & PoE Specifications	
PoF Input	Power by PoF Switch
PoE Output	IEEE 802.3at Power over Ethernet Plus/PSE Max.25W PoF Swtich to PoF Splitter Distance 100m IEEE 802.3af Power over Ethernet/PSE Max. 15W PoF Swtich to PoF Splitter Distance 500m
DC Output	Max. 15W (DC 12V 1.25A)
Standards Conformance	
Environment specification	Operating temperature: -40°C~75°C, operating humidity: 5%~95% Storage temperature: -40°C~85°C, storage humidity: 5%~95%

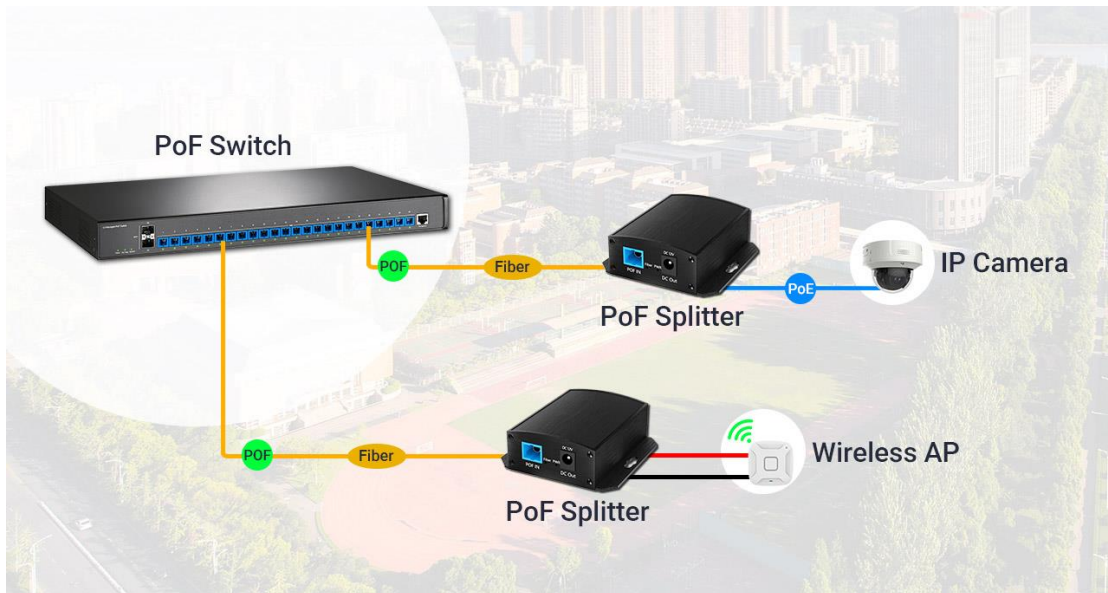
POF-SPL-1GP12V

Gigabit PoF Splitter

Mechanical Drawing



Applications



Ordering Information	
POF-SPL-1GP12V	Gigabit PoF Splitter, Delivers both DC 12V output and standard Gigabit PoE power. 6KV surge protection, IEEE802.3af/at

Shenzhen Benchu Group Technology Limited

5F,Block5,GuangmingGu Industrial Park,Matian Villiage,

Guangming Disitric,Shenzhen,China

Tel:+86-755 23246531 Email: sales@benchu-group.com

www.benchu-group.com



POF-SPL-1GP12V

Benchu group reserves the right to change specifications without prior notice.

All brand names and trademarks are property of their respective owners.

Copyright © 2020 Benchu Technology Corp. All rights reserved.