HSGQ - F32F PoF

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Variants

32port PoF

Details

The **HSGQ-F32R PoF Optical Router** is a high-performance optical-electrical integrated distribution device designed for **FTTH, smart buildings, hotels, industrial parks, apartments, CCTV surveillance, and enterprise optical networking**. It combines a **1×32 optical distribution unit** with a built-in **32-channel 48V power supply**, allowing both optical data transmission and power delivery through a single optical-electrical composite cable.

Supporting automatic **GPON and EPON adaptation**, the HSGQ-F32R can simultaneously deliver network connectivity and remote power to Optical Network Units (ONUs) over distances of up to **300 meters**. It also supports secondary cascading, making it an excellent solution for scalable all-optical transmission networks.

PoF Outputs

32 Ports

Power Output

48V

Transmission

300 m

PON Mode

GPON / EPON

Key Features

? Integrated 1×32 optical distribution and 32-channel 48V power supply

? 32 × PoF SC output ports for Optical Network Units (ONUs)

? Simultaneous optical data transmission and power delivery

? GPON / EPON automatic mode adaptation

? Supports optical-electrical composite cable deployment

? Maximum transmission distance up to 300 meters

? Supports secondary cascade networking

? Rack-mount industrial design for telecom cabinets

Technical Specifications

Parameter	Specification

Model	HSGQ-F32R
Product Type	PoF Optical Router
User Interface	32 × PoF SC Output, 1 × PON Input, 1 × PON Output
Interface Mode	Optical-Electrical Composite Cable
PON Compatibility	Automatic GPON / EPON Adaptation
GPON Speed	Upstream 1.25 Gbps / Downstream 2.5 Gbps
GPON Optical Receive Power	-7 dBm to -28 dBm
EPON Speed	Upstream 1.25 Gbps / Downstream 1.25 Gbps
EPON Transmit Power	0 to +4 dBm
EPON Optical Receive Power	-7 dBm to -27 dBm
Maximum Transmission Distance	300 meters
Cascade Support	Secondary Cascade Supported
Dimensions (L × W × H)	445 × 310 × 44 mm
Installation	19-inch Rack Mount
Power Supply	AC 100–240V, 50/60Hz
Power Consumption	800 W
Operating Temperature	-10°C to +50°C

Operating Humidity	0% – 85% RH (Non-condensing)
Storage Temperature	-40°C to +80°C
Storage Humidity	5% – 95% RH (Non-condensing)

Applications

? Hotels & Resorts

? Apartments & Residential Buildings

? Industrial Parks

? IP CCTV & Video Surveillance

? Schools, Hospitals & Campuses

? All-Optical FTTH & Smart Building Networks

Advantages

Delivers both optical communication and 48V power through a single hybrid cable.

Supports up to **32 ONU connections** from one device.

Reduces installation cost by minimizing separate power cabling.

Automatic GPON/EPON compatibility simplifies network deployment.

Supports secondary cascading for flexible network expansion.

Ideal for centralized PoF deployments in hotels, surveillance systems, and smart buildings.

Note: The HSGQ-F32R PoF Optical Router is designed for use with compatible **PoF ONUs, optical-electrical composite cables, GPON/EPON OLTs, and Plastic Optical Fiber (PoF) infrastructure**. Proper optical power budgeting, cable selection, and ONU compatibility should be verified to ensure stable transmission and reliable remote power delivery over distances up to **300 meters**.

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