

EYR-PS16P1R1S

Eyora PoE Switch — 16 Ports · Gigabit · 1U Rack-Mount

THE BACKBONE OF EVERY SYSTEM.



OVERVIEW

The EYR-PS16P1R1S is a 16-port Gigabit PoE Ethernet switch designed for powering and connecting IP cameras, wireless access points and other PoE network devices. It provides sixteen PoE ports, one Gigabit RJ45 uplink and one 1.25 Gbps SFP fibre uplink, with 40 Gbps non-blocking switching so every port runs at full speed at once. A 300 W PoE budget runs all sixteen ports at 802.3af, or up to ten devices at full PoE+ for cameras with heaters or illuminators. The 1U metal chassis mounts in a standard rack.

KEY FEATURES

- 16 Gigabit PoE ports — 300W total budget
- All 16 ports at 802.3af, or up to 10 at full PoE+
- 40 Gbps non-blocking switching — full speed on every port at once
- 1 Gigabit RJ45 uplink and 1 × 1.25 Gbps SFP fibre uplink
- IEEE 802.3af and 802.3at compliant
- Fanless — silent operation, no moving parts
- 1U metal chassis, rack ears supplied
- Surge protection to IEC 61000-4-5 Level 3
- Plug and play — no configuration required
- 5-year hardware warranty

RELIABILITY & COMPLIANCE

MTBF	> 50,000 hours
Warranty	5 years, hardware
Certifications	CE, FCC, RoHS



SPECIFICATIONS

PORTS

PoE Ports	16 × 10/100/1000Mbps RJ45, auto-negotiating
RJ45 Uplink	1 × 10/100/1000Mbps RJ45
SFP Uplink	1 × SFP, 1.25 Gbps
Total Ports	18
Transmission Distance	RJ45: up to 100m; SFP: per optical module specification
Transmission Media	RJ45: Cat5e / Cat6 UTP; SFP: LC connector

POWER OVER ETHERNET

PoE Standard	IEEE 802.3af (15.4W) and IEEE 802.3at (30W)
PoE Method	End-span (Mode A), pins 1/2 and 3/6
Total PoE Budget	300W
Per-Port Output	Up to 30W
Capacity at Full Load	All 16 ports at 802.3af (up to 15W each), or up to 10 ports at 802.3at (30W)
PoE Port Detection	Automatic — non-PoE devices receive data only

SWITCHING

Network Standards	IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.3ab 1000BASE-T, IEEE 802.3z 1000BASE-SX/LX
Switching Capacity	40 Gbps, non-blocking
Forwarding Mode	Store-and-forward
Flow Control	IEEE 802.3x full duplex, back pressure half duplex
MAC Address Table	8K entries
Jumbo Frame	Up to 9,216 bytes
Auto MDI/MDI-X	Supported — straight or crossover cables
Management	Unmanaged — plug and play

POWER

Input Voltage	AC 100-240V, 50/60Hz
Power Consumption	Switch: <15W; total with PoE: <315W

INDICATORS

Power	1 × green LED
SFP Link	1 × green LED, on when linked
Uplink Port	1 × LED, flashing on data activity
PoE Status	16 × LED, one per PoE port
Link / Activity	16 × green LED on RJ45 jack — on when linked, flashing on data

PROTECTION

Surge Immunity	Level 3, IEC 61000-4-5
Electrostatic Discharge	Contact Level 3, Air Level 3, IEC 61000-4-2

ENVIRONMENT

Operating Temperature	-10°C to +55°C
Storage Temperature	-40°C to +85°C
Operating Humidity	5% - 95% RH (non-condensing)
Cooling	Fanless

MECHANICAL

Dimensions (L × W × H)	330 × 205 × 44.5 mm
Rack Height	1U
Housing	Metal
Colour	Black
Weight	3 kg
Rack Ears	Supplied in the box