

The Fiberroad **EasyPoE Series Unmanaged Essentials PoE Switches** provide a simple, cost-effective solution for expanding small business networks with Power over Ethernet capabilities. These plug-and-play switches feature an integrated internal power supply to simplify installation while ensuring reliable operation. The series offers versatile connectivity options, supporting 10/100M, 10/100/1000M, and 2.5G speeds with full PoE and PoE+ compatibility. Utilizing Fiberroad's unique PoE technology, these switches automatically detect the class of each connected device—such as IP cameras, VoIP phones, and wireless access points—and granularly balance and allocate the precise amount of power needed, delivering both data and power over a single CAT-5e Ethernet cable.



Highlights

Versatile Connectivity: The series offers versatile connectivity options, supporting 10/100M, 10/100/1000M, and 2.5G speeds (depending on the specific model) with full 802.3af and 802.3at PoE and PoE+ compatibility.

Intelligent Power Allocation: Utilizing Fiberroad's unique PoE technology, these switches automatically detect and deliver the precise amount of power needed to devices like IP cameras, VoIP phones, and wireless access points, all over a single CAT-5e Ethernet cable.

Designed for Durability: Housed in a durable and rugged metal case with a fanless design for silent operation.

Flexible Deployment: Suitable for desktop, wall-mount, or rack-mount installations (depending on the specific model) and includes LED indicators for ease of use.

Energy-Efficient: Incorporates energy-efficient technology for power savings, ensuring interoperability with any standards-based devices in your existing network.

Specifications

							
Features	FR-5N3005P	FR-5N3105P	FR-5N3006P	FR-5N3010P	FR-5N3110P	FR-5N3208P	FR-5N3210P
10/100/1000M RJ45	5	5	6	10	10	8	10
1000M SFP Slot	\	1	\	\	1	2	2
Installation	Desktop or Wall Mount						Desktop
Network Media	100BASE-TX: UTP category 5, 5e cable (maximum 100m); 1000BASE-T: UTP category 5, 5e, 6 or above cable (maximum 100m)						

Power Supply and PoE Configuration

Power Input	1						
Power Connector	C14 Terminal						
Operating Voltage	Internal Power Supply, Input Voltage: AC110-240V 50/60Hz, Power Supply: 52V±5%						
Power Consumption	65W(MAX)	65W(MAX)	65W(MAX)	130W(MAX)	130W(MAX)	130W(MAX)	132W(MAX)
IEEE802.3 af/at Ports	4	4	4	8	8	8	8
Max Power Per Port	30W	30W	30W	30W	30W	30W	30W
Total PoE Power Budget	60W	60W	60W	120W	120W	120W	120W
Power Supply Pin	1/2(+), 3/6(-)	1/2(+), 3/6(-)	1/2(+), 3/6(-)	1/2(+), 3/6(-)	1/2(+), 3/6(-)	1/2(+), 3/6(-)	1/2(+), 3/6(-)
PoE Power Supply Typ.	End-span	End-span	End-span	End-span	End-span	End-span	End-span

Performance Specification

Switch Architecture	Store-and-Forward						
Auto MDI/MDI-X	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Half/Full Duplex	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Environmental Specifications

Operating Temp.	0° to 40°C (32° to 104°F)
Humidity	90% maximum relative humidity(RH), non-condensing
Altitude	10,000 ft(3,000m) maximum
Storage Temp.	-20°C to 70°C (-4° to 158°F)

Physical Specifications

Dimensions(L x W x H)	125 x 115 x 33 mm 4.9 x 4.5 x 1.3 in	200 x 118 x 44 mm (7.9 x 4.6 x 1.7 in)					270 x 185 x 45 mm 10.6 x 7.3 x 1.8 in
Weight	0.4kg (0.88 lb)	0.60 kg (1.32 lb)	0.7 kg (1.54 lb)	0.7 kg (1.54 lb)	0.7 kg (1.54 lb)	0.7 kg (1.54 lb)	1.2 kg (2.65 lb)
FAN/Fanless	Fanless	Fanless	Fanless	Fanless	Fanless	Fanless	Fanless

LEDs

PWR	ON: Power is being supplied ,OFF: Power is not being supplied
RJ45 Ports	ON: Port connection is active, Blinking: Data transmitted, OFF: Port connection is not active
SFP Ports	ON: Port connection is active, Blinking: Data transmitted, OFF: Port connection is not active

Regulatory & Warranty

Standard Compliance	IEEE 802.3ab 1000BASE-T Gigabit Ethernet, IEEE 802.3u 100BASE-TX Fast Ethernet, IEEE 802.3i 10BASE-T Ethernet, IEEE 802.3x Flow Control
Warranty	1 Year (Details: https://fiberroad.com/warranty)

Package Contents

Device	1 x PoE Switch
Installation Kit	1 x AC Power Cord, 2 x Rack Mount Kits(FR-5N3210P Only)
Documentation	1 x Installation Guide

Shipping

Model No.:	FR-5N3005P	FR-5N3105P	FR-5N3006P	FR-5N3010P	FR-5N3110P	FR-5N3208P	FR-5N3210P
Classification Code	HS Code: 851762 HTS Code: 8517.62.00						
NDA Compliant	Yes						
Individual Net Weight	0.4 kg (0.88 lb)	0.6 kg (1.32 lb)	0.7 kg (1.54 lb)	0.7 kg (1.54 lb)	0.7 kg (1.54 lb)	0.7 kg (1.54 lb)	1.2 kg (2.65 lb)
Individual Gross Weight	0.6 kg (1.32lb)	0.8 kg (1.98 lb)	0.9 kg (1.98 lb)	0.9 kg (1.98 lb)	0.9 kg (1.98 lb)	0.9 kg (1.98 lb)	1.5 kg (3.30 lb)
10-Unit Package G.W.	\	\	\	\	\	\	15 kg (33.07 lb)
20-Unit Package G.W.	12 kg (35.27 lb)	16 kg (39.68 lb)	18 kg (39.68 lb)	18 kg (39.68 lb)	18 kg (39.68 lb)	18 kg (39.68 lb)	\
30-Unit Package G.W.	18 kg (53.91 lb)	24 kg (59.52 lb)	27 kg (59.52 lb)	27 kg (59.52 lb)	27 kg (59.52 lb)	27 kg (59.52 lb)	\
10-Unit Package Dimensions	\	\	\	\	\	\	43 x 36 x 54 cm 17 x 14.2 x 21.3 in
20-Unit Package Dimensions	48 x 37.2 x 38.5 cm (19.3 x 15 x 15.2 in)						\
30-Unit Package Dimensions	48 x 37.2 x 58.5 cm (19.3 x 15 x 23 in)						\

Ordering Information

Model No.	10/100/1000M RJ45	1000M SFP	PoE Standard	PoE Power Budget	Power Supply
FR-5N3005P	5	\	Port 1 to 4 IEEE802.3 af/at	60W	1 x AC220V
FR-5N3105P	5	1	Port 1 to 4 IEEE802.3 af/at	60W	1 x AC220V
FR-5N3006P	6	\	Port 1 to 4 IEEE802.3 af/at	60W	1 x AC220V
FR-5N3010P	10	\	Port 1 to 8 IEEE802.3 af/at	120W	1 x AC220V
FR-5N3110P	10	1	Port 1 to 8 IEEE802.3 af/at	120W	1 x AC220V
FR-5N3208P	8	2	Port 1 to 8 IEEE802.3 af/at	120W	1 x AC220V
FR-5N3210P	10	2	Port 1 to 8 IEEE802.3 af/at	120W	1 x AC220V

NOTE: The Fiberroad EasyPoE Series provides a reliable and simplified Power over Ethernet (PoE) solution, specifically designed for video surveillance access networks. It efficiently powers your IP cameras and transmits video data over a single cable, ensuring a clean and cost-effective installation.

To select the right switch for your needs, it's crucial to consider the bandwidth demands of your cameras:

720p (HD): ~1-2 Mbps per camera.

1080p (Full HD): 2-5 Mbps per camera.

4K (Ultra HD): 15-20 Mbps per camera.

For systems with high bandwidth and performance, such as those using multiple 4K cameras, we recommend our high-performance unmanaged and Layer 2/3 managed PoE switches to ensure optimal network performance and video quality.