

# Hybrid Fiber PoE Extender PF100T/PF100TH, PF100R/PF104R

## *Delivering Power/Fiber over 3,400 ft (1 km) with PoE+ (30 Watt) Output*

In use of hybrid cable (fiber and copper conductor), PF100 system can deliver integrated power and data over a distance of 3,400 ft ( 1km) with PoE and PoE+ power output to perform Power over Ethernet for upto 4 ports (PF104R) or 1 port (PF100R/PR100RA) connecting with networking devices such as IP cam, 3G router, WiFi AP, IP phone, etc.

## *Centralized management of IP Surveillance application*

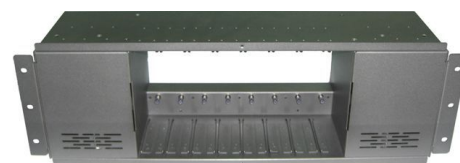
A 19" cabinet power shelf can accommodate up to 8 x PF100T which enables IT manager to centrally manage the remote IP/power requirement.

## *Outdoor enclosure (PF10xR-ODU) and harden working environment supported*

Optionally PF104R/PF100R/PF100RA is housed into IP-66 rated outdoor housing for harden working environment of -40°C to 70°C degree.



PF100T: Transmitter



PPS800: 8-slot 19" 500w power chassis



PF104R: Receiver with PoE output



PF104R (rear panel) LAN x4



PF100R/PF104R: Receiver with PoE output



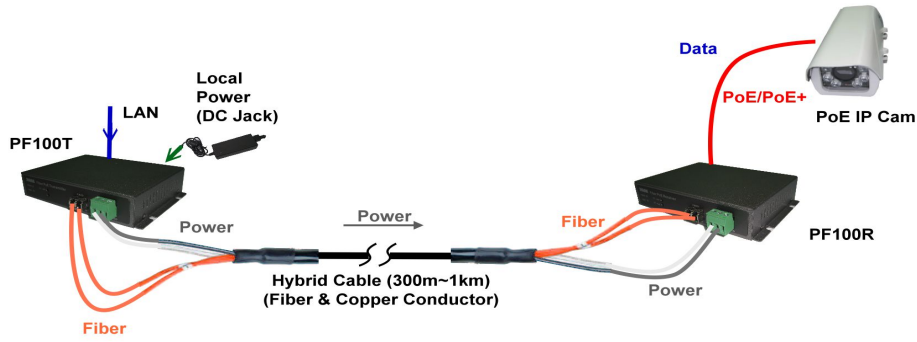
PF100R/104R-ODU (IP-66 outdoor enclosure)

## Key Features

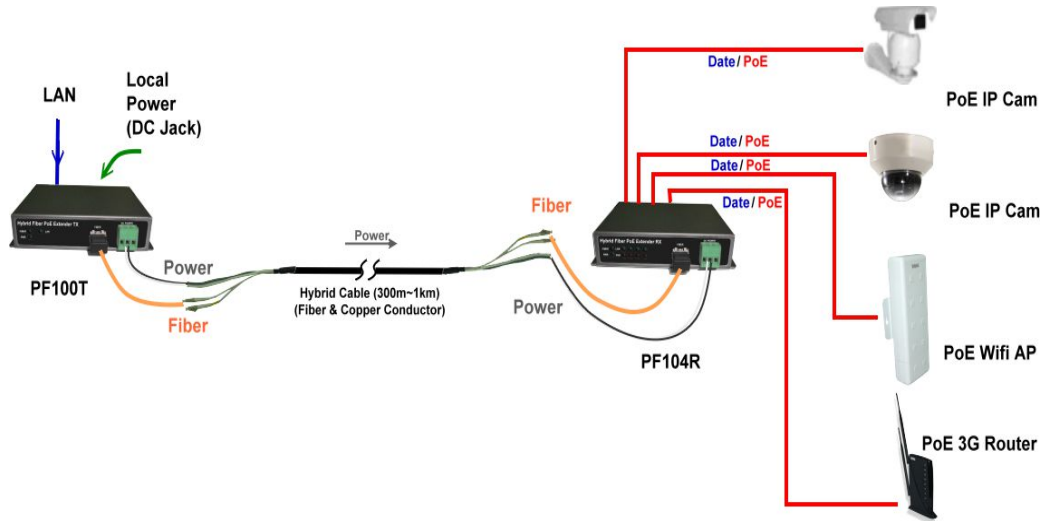
- Comply with IEEE 802.3, IEEE 802.3u 10/100Base-TX Ethernet Standard
- One Fiber Optic LC connector and one RJ-45 port at TX, four at RX
- 100 Mbps Data Transfer Rate (Full Duplex)
- Transmission distances up to 2km, Multimode fiber
- Supports auto-negotiation with 10M/100M, full/half duplex capability
- Support auto MDI-MDIX function in Twist Pairs side
- LED indicators allow for visual verification of power, fiber and LAN activity
- Compact metal casing with rack mount facility or IP-66 rating outdoor
- Harden working environment supported
- Supports IEEE 802.3at/af PoE+ or High power Midspan to extend fiber/power distances up to 1,000m

# Product Diagram

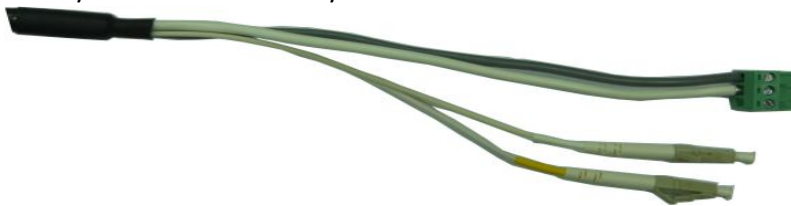
## PF100T/PF100R



## PF100T/PF104R



## FIBER/POWER DISTANCE / POE OUTPUT CABLE



Hybrid Cable(HC)	Conductor Gauge	30W/40W Output	15W/20W Output
HC12	12 AWG	1,000m	2,000m
HC18	18 AWG	450m	700m

## Technical Specification

Standard	IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, 100Base-FX
PoE Interface	IEEE 802.3at/af or High power Midspan 10/100Base-T RJ-45 Port x 1/4 & 100Base-FX Port (LC) x 1
Switching Method	Store and forward
Data Transfer Rate	100 Mbps-Full duplex
MAC Table	1K
Memory Buffer	128Kb RAM
Dimensions	133 x 90 x 28mm (D x W x H)
Weight	0.5 kg
Temperature	0~50°C (Operating), -40°C~70°C (Outdoor models only)
Humidity	10~90% non-condensing
Power	Ext. Power Supply, DC 56V, 1.2A, 65 W

## Ordering information

Model	Specification
PF100T	Hybrid Fiber PoE Extender Transmitter, 65w/56VDC power
PF100TH	Hybrid Fiber PoE Extender Transmitter, 120w/52VDC power
PF100R	Hybrid Fiber PoE Extender Receiver with 1-port PoE Midspan high power (40W) out
PF100R-ODU	Receiver within IP-66 outdoor enclosure, -40°C~70°C
PF100RA	Hybrid Fiber PoE Extender Receiver with 1-port PoE Endspan 802.3at/af (30W/15W)out
PF100RA-ODU	Receiver within IP-66 outdoor enclosure, -40°C~70°C
PF104R	Hybrid Fiber PoE Extender Receiver with 4-port PoE Midspan total 40W(PF100T) or 80W(PF100TH) out
PF104R-ODU	Receiver PF104R within IP-66 outdoor enclosure, -40°C~70°C
PPS800	8-slot 19" Power Chassis, 500W power
HC12-2Km	Hybrid Cable, 12AWG, 2000m in length
HC12-1Km	Hybrid Cable, 12AWG, 1000m in length
HC18-800	Hybrid Cable, 18AWG, 800m in length
HC18-500	Hybrid Cable, 18AWG, 500m in length