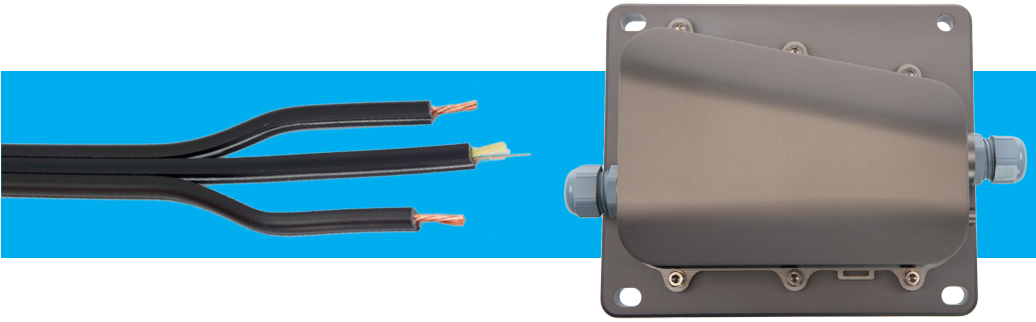


COMMSCOPE®



Powered Fiber Cable System

COMPLETE "RACK TO DEVICE" SOLUTION FOR POWERING
AND COMMUNICATING WITH HD CAMERAS, WI-FI HOTSPOTS,
SMALL CELL AND OTHER NETWORK DEVICES.

IN PARTNERSHIP WITH

aruba
NETWORKS

SIMULTANEOUSLY POWER & COMMUNICATE WITH NETWORK DEVICES

Ideal for Wi-Fi access points, HD cameras, ONT's and small cell devices

- 30X THE DISTANCE OF POE
- REDUCE LANDLORD/UTILITY NEGOTIATIONS
- ELIMINATE LOCAL POWER SOURCES
- CENTRALLY LOCATED UPS
- SELV AND NEC CLASS II COMPLIANT



Powered fiber cable system with integrated power management and media conversion



Applications include a variety of devices requiring optical communications & DC power

- HD surveillance cameras
- Wi-Fi access points
- Small cells
- PoLAN
- PoE or PoE+ extension
- Digital signage



DATA RATE AND POWER LIMITATIONS OF POWER OVER ETHERNET (POE, POE+)



Powered fiber cable systems can deliver Power over Ethernet (PoE) at up to 30 times the distance of a CAT cable system.

POWERED FIBER OPTIC CABLE

UP TO 12 OPTICAL FIBERS SMF OR MMF

EXTREMELY FLEXIBLE CABLE DUE TO SPECIAL STRANDED CONDUCTORS

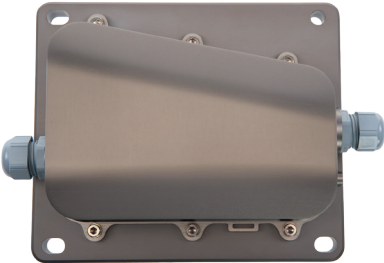
AVAILABLE IN 12 AWG OR 16 AWG SMF OR MMF

ONE CABLE,
MANY OPTIONS

Single hybrid copper/fiber cable design for simplified cable field access.

- Designed for “easy peel” cable access – the cable can be accessed much faster than traditional hybrid cables
- No special tools needed – one ordinary wire strip tool accesses both the optical fiber and conductor elements
- Utilizes globally existing, proven and inexpensive FTTH style flat cable hardware
- Outdoor and Riser/LZSH indoor/outdoor rated versions

PoE EXTENDER



- Termination for hybrid cable input
- Environmentally sealed closure
- Circuit protection electronics
- Electrical power management
- Media conversion
- 1 PoE+ output
- Fits in one hand

Solves power & communication challenges

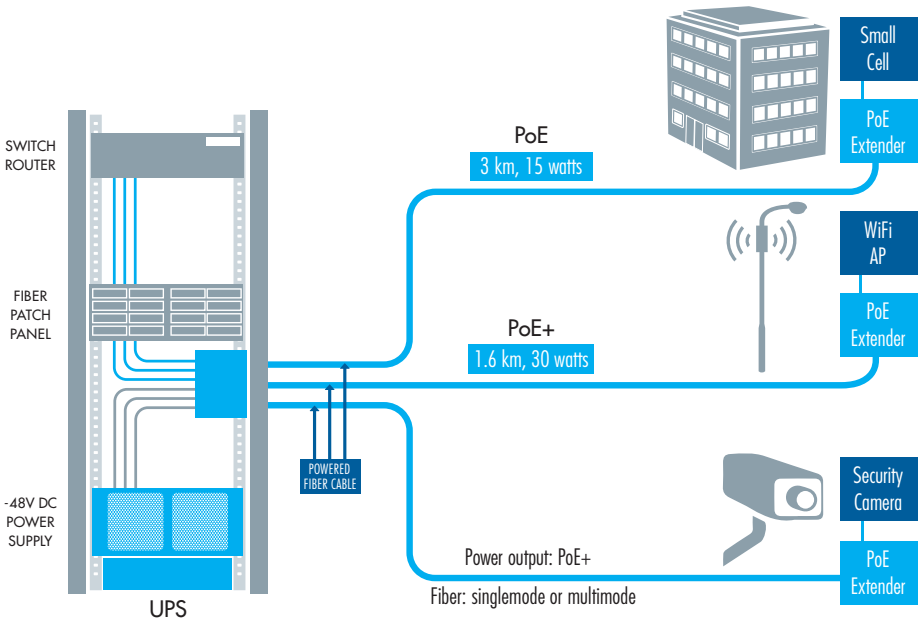
3 LEVELS OF ELECTRICAL PROTECTION

- 1 PRIMARY**
GDT component rated to 40kA surge protection
- 2 SECONDARY**
MOV components rated to 4.5kA
- 3 TERTIARY**
TVS prevents the voltage from rising above 80-100V

POWER MANAGEMENT

- Reduces the need for electrical “system design” by automatically correcting for voltage drop over distance
- Optical signal and power-in is converted to CAT5 PoE+ compliant jack

SYSTEM OVERVIEW



POWERED FIBER CABLE SYSTEM

- Greatly speeds up planning by eliminating DC electrical calculations for voltage/power drop over varying distances
- Up to 32 devices simultaneously from one power supply
- Carrier grade electrical protection
- NEC Class II and SELV compliant
- Allows placing devices exactly where they are needed to maximize coverage

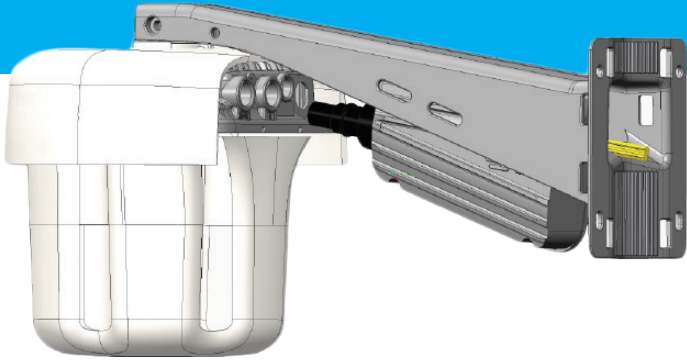
GOAL

A hybrid copper/fiber system that installs like a “long extension cord”

SYSTEM ELEMENTS

- Hybrid Cable
- PoE Extender
- Safety & Overload Protection
- Cable/Fiber Management
- Power Transmission Management
- Power Supply (PSU)

ARUBA SYSTEM PARTNERSHIP



EXTENDS AP-270 POE
DISTANCE TO **1.6KM**

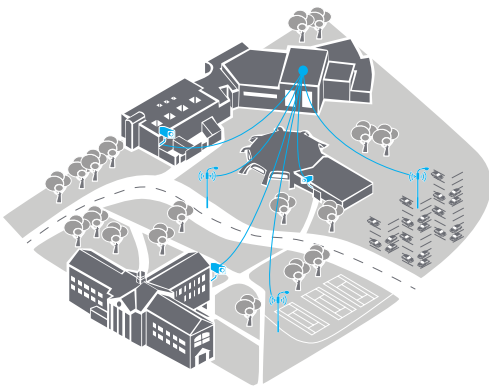
The PoE Extender is PoE+ compliant and conceals inside the mounting arm of Aruba Networks' AP-270 outdoor Wi-Fi access points. The combined solution is ideal for architecturally-sensitive sites or wherever long-haul, EMI-resistant, or high-speed outdoor connectivity is required.

The innovative AP-270 access points deliver gigabit Wi-Fi to 802.11ac mobile devices, and enable 802.11n clients to operate up to three-times faster than competing products.

Purpose-built for the harshest outdoor environments, the aesthetically-designed access points can withstand exposure to extreme high and low temperatures, persistent moisture and precipitation, and airborne contaminants.

The PoE Extender enables AP-270 access points to be located at unparalleled distances from mains power while delivering high-speed, EMI-resistant connectivity.

APPLICATION EXAMPLE: Campus Environment



Indoor/outdoor cable can be routed inside buildings and then transition to outside and underground applications

- Security camera(s) on lamp posts and in parking areas
- Wi-Fi hotspots for data offload
- Small cells for poor coverage areas

PSU LOCATED IN TELECOM CLOSET OR DATA CENTER, WHERE POWER AND FIBER NETWORK ARE AVAILABLE



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