

PRODUCT SOLUTIONS BRIEF COMMSCOPE

SMART CITY IoT ENABLEMENT



Through our strong global partnerships and alliances with manufacturers such as CommScope, we are able to present you with the following offering to meet your specific smart city requirements.

Powered Fiber Cable System (PFCS)

CommScope's Powered Fiber Cable System (PFCS) is a complete rack-to-device solution for powering and communicating with HD cameras, Wi-Fi hotspots, small cells and various network devices. When coupled with Power over Ethernet (PoE) extenders, PFCS solves power and communications challenges, including multi-level electrical protection as well as managing power by automatically correcting for voltage drop over distance.

CHALLENGE SOLVERS

- Smaller size of cables and connectors compared to AC line power, enabling higher density.
- Continuous monitoring of the circuit for faults and other operating conditions.
- Lower installation costs since low-voltage cabling installers can install the cabling at the same time as part of communications cabling.
- Improved control and operation of devices for better facility management.
- Synergies created by power delivery simultaneous with communication, enabling a diverse and intelligent infrastructure (e.g., smart LED lighting).
- UPS backup, enabling robust and reliable operation.
- Speeds up planning by eliminating the DC electrical calculations for voltage and power drop over varying distances.
- Ideal for campus environments, airports, parking areas, stadiums and small cell base stations.

THE ANIXTER APPROACH

- **Environmental Monitoring**
Leverage a network of sensors to provide predictive insight that solve unique challenges including air quality, energy efficiency, traffic management and utility operations.
- **Visual Management**
Provide visualization of real-time data for city stakeholders to make informed decisions and provide critical information for resident and visitor engagement.
- **Communication Enablement**
Integrate voice, data and video experience across multiple city systems for enhanced operational efficiency.
- **Security Integration**
Manage public safety concerns by creating data interoperability and correlation between physical security systems, first responders and critical city infrastructure.
- **Network Connectivity**
Provide ubiquitous broadband connectivity to enable open platforms and actionable intelligence through analytics for city stakeholders to solve key challenges.

THE COMMSCOPE SOLUTION

CABLE TYPES

Indoor/outdoor LSZH, outdoor singlemode and multimode 12 AWG or 16 AWG

SUPPORTED DISTANCES

Two-port type 1 PoE (15W) up to 3 km
Two-port type 2 PoE (30W) up to 1.6 km
One-port type 3 PoE (60W) up to 650 m

POE EXTENDERS

Singe Port Extender - Type 1, 2, 3 PoE
Dual Port Extender - Type 1 and 2 PoE



60 W PoE Extender

COMMSCOPE®

WHAT WE HEAR

City officials are dealing with a variety of challenges:



COLLABORATION
between city stakeholders



INTEGRATION
of data platforms



Achieving consensus
for **FUNDING**



Justifying the cost
of **INVESTMENT**



Limitations of **EXISTING INFRASTRUCTURE**

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**Infrastructure
as a Platform**
by Anixter

Infrastructure as a Platform by Anixter provides a comprehensive approach to maximizing the potential of an automated smart city, which starts at the physical layers.

CONFIGURE

We help you discover and map your specific needs to the best solution.

- IP67
- Hybrid cable
- Power Supplies
- 1 and 2 port options
- Sunshield

BUNDLE

Your validated, preconfigured solutions are packaged and site ready.

- Fiber optic and copper patching connectivity options
- Small cells
- WiFi, cameras, etc...

DEPLOY

Controlled, repeatable solutions are delivered on time and under budget.

- Custom packaging and labelling
- Time-sensitive delivery options
- Staged project shipping
- Tailored last-mile delivery

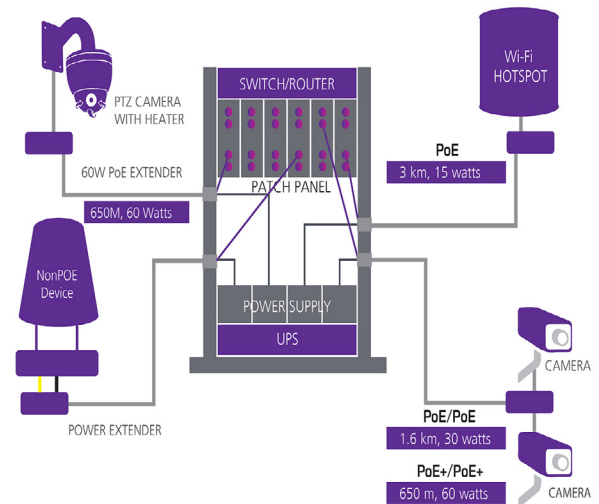
COMMSCOPE'S POWERED FIBER CABLE SYSTEM (PFCS) FEATURES

✓ JUSTIFY THE COST OF EFFICIENCY

- Reduces landlord and utility negotiations
- Eliminates local power sources and centralized backup power solutions
- Greatly speeds up planning by eliminating DC electrical calculations for voltage/power drop over varying distances
- Features "easy peel" cable access that allows cables to be accessed much faster than traditional hybrid cables

✓ MIGRATE TO AN IP PLATFORM

- Runs 30 times the distance of PoE
- Allows for placing devices exactly where they are needed to maximize coverage
- Features PoE extenders that can power and communicate with any Type 1 (15w), type 2 (30w) or type 3 (60 w) PoE device dual signature PoE device



Powered Fiber solves remote PoE powering issues up to 3 km

> FOR MORE DETAILS VISIT [ANIXTER.COM/SHOPCOMMSCOPE](https://www.anixter.com/shopcommscope)

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Legal Statement: [anixter.com/legalstatement](https://www.anixter.com/legalstatement)

At Anixter, we enable the connected world. By building, connecting, protecting and powering valuable assets and critical infrastructures, we help to sustain and grow businesses and communities worldwide. We accomplish this by offering full-line solutions, technical intelligence, supply chain expertise and an unmatched global distribution network.

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