

# FiberREACH™

Empower your potential at the edge

Today's enterprise network must support IT and OT devices with connectivity and power. More mission-critical devices are needed at the edge. The number of edge-enabled devices is expected to reach **7.7b** by 2030.<sup>1</sup>

## Farther from the core

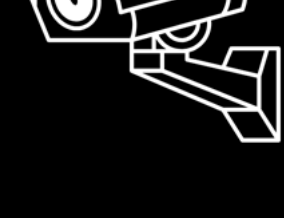
More edge devices are being located farther from the nearest telecom room and beyond the 100-meter distance limit defined in the PoE cabling standards.

## Requiring more power

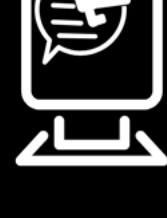
Many now support more power-intensive AI applications, pushing the limits of the latest PoE standards (90 watts to the device).



Emergency phones



HD security cameras



Digital signage



Wi-Fi® access points



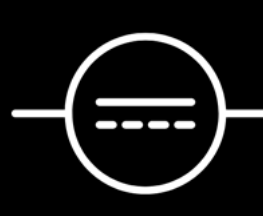
Small cells



Building management systems



Remote parking, security control



Low-voltage DC-powered devices

## What are your options?

There are options for extending the reach of your structured cabling beyond 100 meters. Each has pros and cons, but none present an especially compelling business case.

### ADD ANOTHER TELECOM ROOM

- ✓ Standards-compliant, potential to house additional equipment
- ✗ Sacrifices space, costly, disruptive construction, more failure points and repair costs

### ADD POE EXTENDERS

- ✓ 2X the channel length with longer spans possible with daisy-chaining, relatively easy to deploy
- ✗ PoE bandwidth limitations, more failure costs

### REPLACE COPPER WITH FIBER

- ✓ Span up to several kilometers and deliver far more data
- ✗ Requires optical transmission equipment and media converters, needs separate power costs

### TRY AN EXTENDED-REACH POE CABLE

- ✓ Claims to support PoE > 100 m and is fast and easy to deploy
- ✗ Performance depends on chip type; cannot rely on extended reach performance

## The FiberREACH™ platform

Deliver more power and data over longer distances to support AI and IoT edge devices, in-building and across campus—all while simplifying the network, reducing costs and getting the consistent performance of a standards-compliant link.

**1**

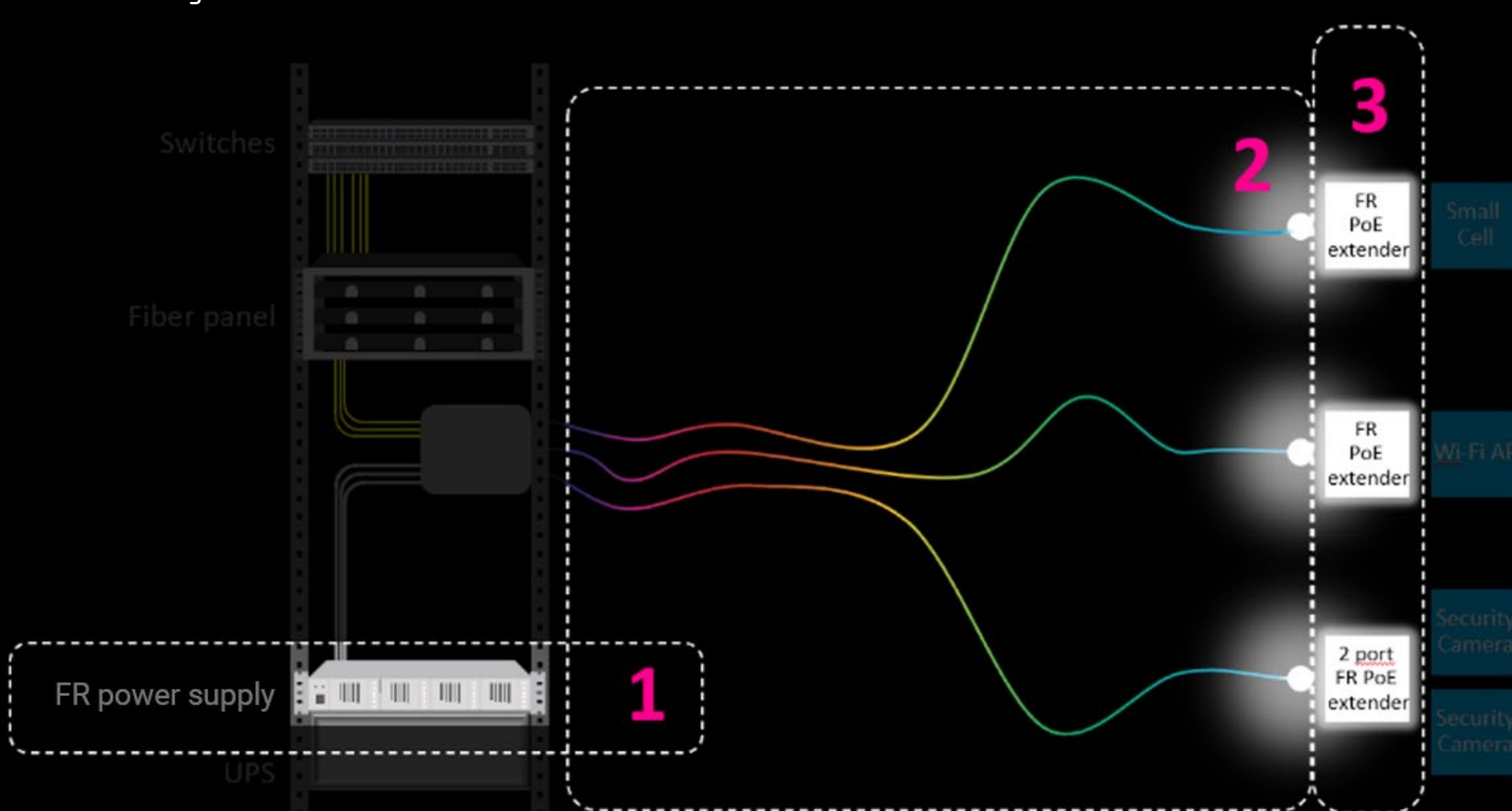
Power supply/UPS rack-mounted panel occupies minimal space in the telecom room. One power panel supports up to 32 devices simultaneously.

**2**

Hybrid power/fiber cabling combines multimode or singlemode fiber and low-voltage copper conductors in one flexible hybrid cable that fits in a cable conduit.

**3**

PoE extenders terminate the hybrid cable near the device(s); a Category 6A patch cord connects the device(s).



## Extend your reach

Each 12 AWG conductor supports:

- 7 W up to 4,600 m
- 15 W PoE up to 3,000 m
- 30 W PoE up to 1,800 m
- 60 W PoE up to 880 m
- 90 W PoE up to 350 m



90 W

## Not just 90 W up to 350 m, a new concept for PoE extenders

In developing the FiberREACH platform, SYSTIMAX engineers also improved the traditional PoE extender, especially for the highest current wattage (90W) applications. The patented concept integrates voltage regulation, Ethernet, and a splice tray in a single enclosure designed for use with hybrid cable. It's ideal for emerging applications such as multiple lens and IR cameras, plus AI and IoT network edge architectures



Network complexity, accelerating changes and a shortage of skilled personnel are redefining the requirements of customer support.

The SYSTIMAX Assurance program delivers 360 degrees of support and performance, from inception to operation. In scope and resources, the SYSTIMAX Assurance program is unlike anything in the industry, yet the goal is so simple: Provide complete peace of mind.

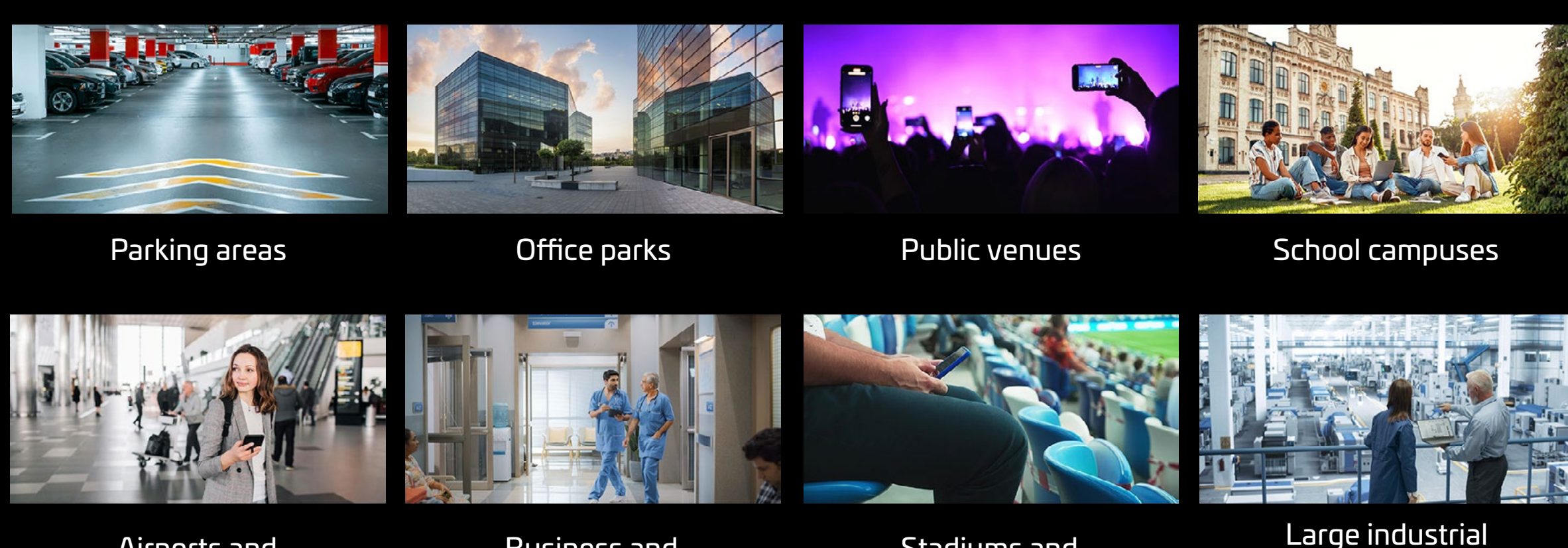
HERE'S HOW WE DO IT

## Expand your potential

- One streamlined power/data platform for all your hard-to-reach edge devices
- Supports passive optical network applications, legacy and next-generation AI
- Performance is warrantied in writing by the SYSTIMAX Assurance program and 25-year Guarantee
- Reduces use of copper (> 50%) and plastic (> 60%) compared to traditional deployments
- Class 2/low-voltage power can be installed without licensed electricians
- Eliminates need for new telecom rooms, PoE extenders, additional conduit or cabling
- Supports spanning tree for greater redundancy and reliability

## Take your network to the edge and beyond

A simplified and sustainable design and fast, easy deployment make the FiberREACH platform ideal for a variety of enterprise and campus environments:



## Mission accomplished

- Extend your network beyond 100 m, supplying more data and power to the edge
- Streamline and simplify for lower cost and more efficiency, speed and sustainability
- Achieve the consistent application performance of a standards-compliant link, every time