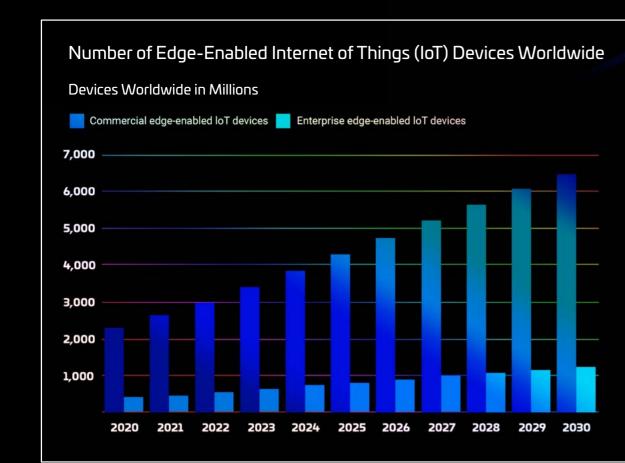
Expanding networks require extended reach



1 Edge Computing Demand for The Proliferation of IoT Devices; Market Scoop, report; November 8, 2023

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.**¹

Some devices are located farther than 100 meters from the nearest telecommunications room.

That's a problem.

The 100-meter barrier

The maximum supported length for a Category 6 or 6A Ethernet cable is 100 meters. The limitation is based on the electrical characteristics of twisted-pair copper cabling. As the signal travels along the cable, its strength decreases, primarily due to insertion loss. The longer the cable, the greater the insertion loss. Based on these performance parameters, the industry standardized on the 100-meter distance.

How do you power and connect devices beyond 100 meters with the reliability of a standards-based connection?

Extended reach options

Options exist to extend your structured cabling beyond 100 meters. Each has its pros and cons.

ADD ANOTHER TELECOM ROOM

Standards-compliant, potential to house

additional equipment Sacrifices space, costly, disruptive construction,

more failure points and repair costs

2X the channel length with longer spans possible

ADD POE EXTENDERS

with daisy-chaining, relatively easy to deploy PoE bandwidth limitations,

more failure costs

Span up to several kilometers and deliver



far more data Requires optical transmission equipment and

media converters, needs separate power costs

Claims to support PoE > 100 m and is fast and easy to deploy

TRY AN EXTENDED-REACH POE CABLE



Performance depends on chip type; cannot



rely on extended reach performance

Each option for extending the structured cabling network involves

How much risk is too much?

risk. With relatively few devices needing support beyond the 100-meter limit, how much risk are you willing to assume?

GigaREACH™ XL

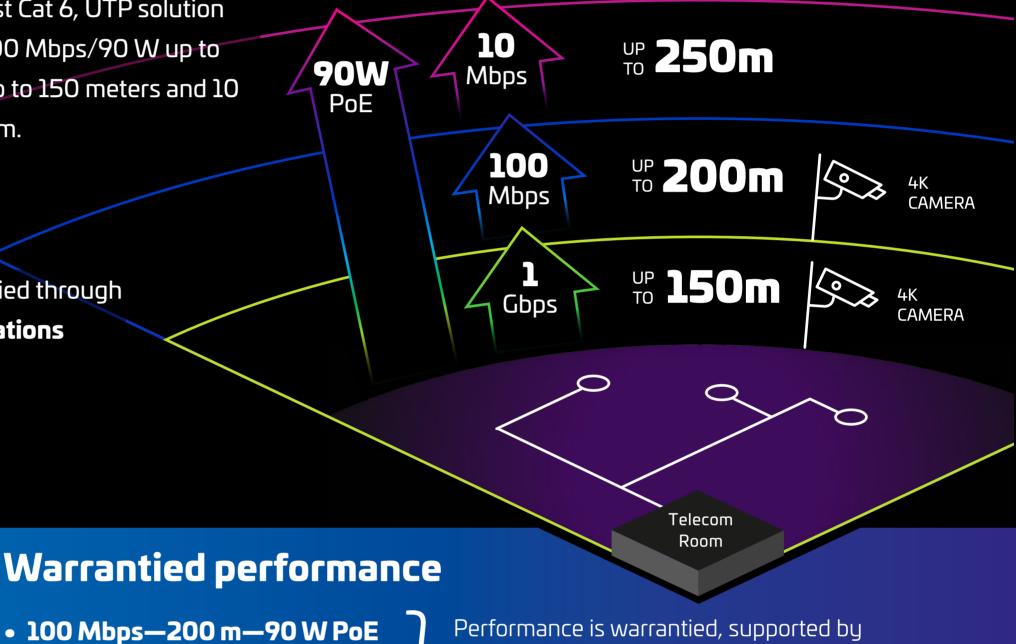
Extend your reach, not your risk.

GigaREACH XL, the first Cat 6, UTP solution to ensure support for 100 Mbps/90 W up to 200 m, 1 Gbps/90 W up to 150 meters and 10 Mbps/90 W up to 250 m.

Assurance.

Performance is warrantied through

our **SYSTIMAX Applications**

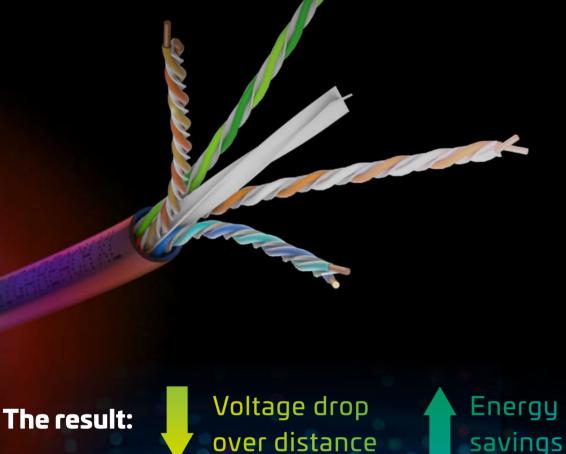




• 1 Gbps—150 m—90 W PoE • 10 Mbps-250 m-90 W PoE

by our 25-Year Extended Product Warranty

CommScope's **SYSTIMAX Assurance** and backed



largest gauge/lowest loss conductor, whose DC resistance (4.69 ohms/100m) is half that of standard Cat-6 cables.

It's all in the twist

Thinner insulation and "tape-pair-separator" maintain 100-ohm impedance and enable the use of 21 AWG conductors with the same size as standard 23 AWG.

Proprietary twist technology enables use of the industry's









Sustainability



Accelerated deployment

and turn-up of new

services

Power

budget



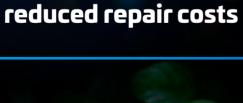
distance

Link

Fewer PoE extenders, media

converters, and booster boxes

and a more secure network



Less equipment, fewer

potential points of failure,





over multiple devices

Increase sustainability

Reduce power energy losses,

gain potential energy savings

Reduce the need for

telecom rooms and their

environmental cost

Get a world of support



Reduce points of failure,

along with truck rolls,

fuel use and GHGe

GigaREACH XL is covered by SYSTIMAX Assurance (including all legacy SYSTIMAX support like our 25-Year Extended Warranty and Application Assurance) and is supported by over 80 systems engineering teams and



over 10,000 SYSTIMAX-certified partners around the world.



Contact your SYSTIMAX representative to find out more

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