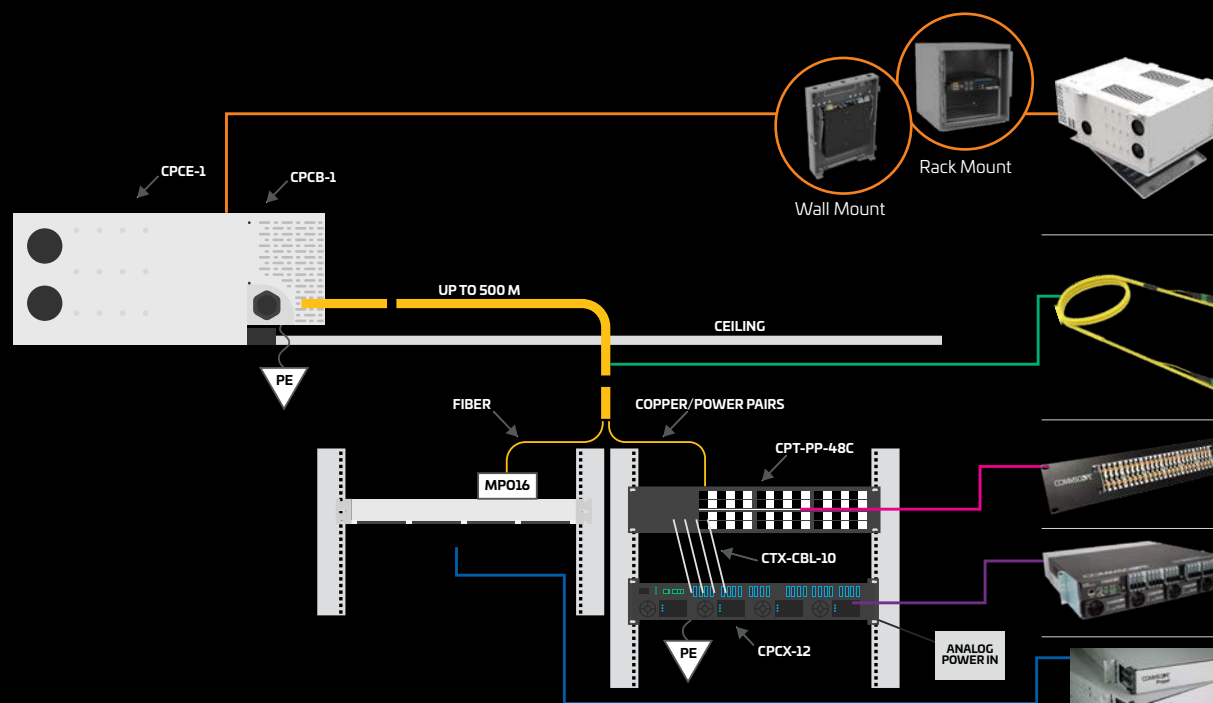


Constellation™

Connecting and powering the hyperconnected enterprise

Constellation system design and architecture: The Constellation™ infrastructure platform is a streamlined, modular and adaptable power/data solution designed specifically for today's hyperconnected enterprise networks. It combines fault-managed power, hybrid power/data fiber, and ceiling-based Constellation Points in an easy-to-deploy star topology. The result is a simplified, scalable network that can dramatically reduce the time, cost and complexity of supporting connected devices—in-building and across campus.



Constellation Point

Each powered fiber cable terminates at a ceiling-, rack- or wall-mounted Constellation Point. Each Constellation Point has 8- or 16- fibers for data connections and 1 kilowatt of power available with AC power outlets and 48-volt dc and 24-volt dc power outlets to support a multitude of devices, including power-over-Ethernet (PoE) switches, building automation controllers, DAS and high-power wireless access points. Each Constellation Point can support up to 50 end-point devices.

Hybrid power/data fiber trunks

CommScope's patented powered fiber trunk cabling extends from the equipment room (where it is connected to the power transmitter and fiber panel) to designated service coverage areas throughout the facility. Power is delivered via 16-AWG twisted-pair conductors—two-pair or four-pair. Data is transported on high-capacity eight- or 16-fiber singlemode cables.

Power transition panel

Termination and cross-connect panel for power pairs of the hybrid power and fiber cable.

Power transmitter

Compact unit that brings analog building power in and converts it to fault-managed direct current (dc) power.

Propel™ fiber panel

Fiber cross-connect panel, located in the equipment room, houses the fiber terminations from the hybrid power and fiber cables. The panel accommodates a variety of interchangeable fiber modules and adapters.

Device connectivity

Each Constellation Point delivers reliable power and data to its connected devices via Category 6A patch cables. Category 6A's superior thermal performance and 10G bandwidth capabilities provide long-term data and PoE support for both existing and next-generation edge-based devices.

Modular building blocks

The Constellation platform is based on modular components deployed in a simplified, repeatable architecture, so it can support a wide variety of network types, devices and environments while reducing design and installation resources and time.