

BRIGHTPATH
FTTH made simple!™

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Contact your local
CommScope sales representative
for more information about
this innovative solution.



BRIGHTPATH[®] Fiber-to-the-Home Solution from CommScope

Fiber Drop Armored Cable

- Armored solution for distribution and drop
- Small, lightweight central tube cable construction
- No preferential bend radius



Optical Tap

- 2, 4 and 8-port options
- Enables low-count fiber distribution cables
- Branch cable option for serving SMBs



Optical Node

- Integrated EDFA provides up to 8 fiber output ports
- Upstream 1310 nm signals are combined and digitized
- Serves up to 256 homes



Network Interface Unit (NIU)

- 1550 nm downstream and 1310 nm upstream over a single fiber
- Upstream signal threshold feature squelches noise
- Full transparency for headend equipment and CPE



Back-Up Power Supply

(located inside residence)

- Over 20 hours of standby power
- Battery reserve for E911
- Coax interface



Fiber Flat Drop Cable

- All-dielectric solution for distribution and drop
- Compatible with industry-standard attachment hardware
- Available pre-installed in ConQuest[™] Toneable Conduit[™]



Leverage Your Existing HFC Network

BrightPath[®] is an innovative fiber-to-the-home (FTTH) distribution system designed to work seamlessly with existing Hybrid Fiber Coax (HFC) networks. BrightPath is fully compatible with existing headend and subscriber equipment, allowing operators to cost-effectively deliver their current suite of analog, digital and interactive services all over FTTH.

Current Business Model Remains Intact

The BrightPath architecture is a unique, all optical distributed tap design that mirrors HFC in performance, design and cost. It allows an operator to deploy FTTH in selected areas as desired, yet maintain the same back office support, Cable Modem Termination System (CMTS), subscriber equipment and services. By incorporating a series of taps to manage bi-directional transmissions, signal levels can be optimized, enabling up to 32 subscribers to be served from a single fiber. Once installed, if business cases for advanced services are identified, the fiber infrastructure of BrightPath can be easily adopted to support wavelength services using known Wavelength Division Multiplexing (WDM) technologies.

Practical FTTH for Greenfields

The poor economics of traditional FTTH architectures have made deployment impractical based on high equipment costs along with installation and maintenance complexity. The BrightPath system can be deployed selectively to provide a competitive advantage, with lower upfront cost and maintenance relative to traditional passive optical networks (PON). The system cost is also highly competitive with new build HFC, particularly in lower density applications.