

*RFoG ...
... the All-Fiber solution*

Fiber.DOCSSIS

FTTx Solutions for
CATV Networks



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The Way to All-Fiber CATV Networks

Fiber.DOCSIS is a RFoG based optical transmission system delivering both, full-spectrum CATV and DOCSIS compliant optical reverse path in FTTx access networks. Optimized design and BKtels unique ultra-low noise receiver technology provide an extraordinary 28 dB optical budget, enabling large splitting factors (up to 128 nodes combined with one return channel receiver) or extended reach applications (>30 km).

BKtels RFoG micro fiber nodes and return channel receivers follow the specifications of the emerging RF over Glass (RFoG) SCTE standard. Especially for Cable TV operators Fiber.DOCSIS opens an easy migration path from an HFC- to an all-fiber based network.

Key Features

- ◆ DOCSIS-enabled FTTx networks
- ◆ 28 dB optical budget
- ◆ Seamless integration with existing Hybrid-Fiber-Coax (HFC) networks
- ◆ Fully compatible with existing headend and end user equipment
- ◆ Cost-effective delivery of the current set of analog, digital and interactive services
- ◆ Compatible with GPON/GEPON installations

RFoG Micro-Fiber-Node

- ◆ Burst Mode Operation
- ◆ Up to 128 subscribers optically combined with one return channel receiver
- ◆ Cost-efficient laser technology with 1310 nm or CWDM wavelength

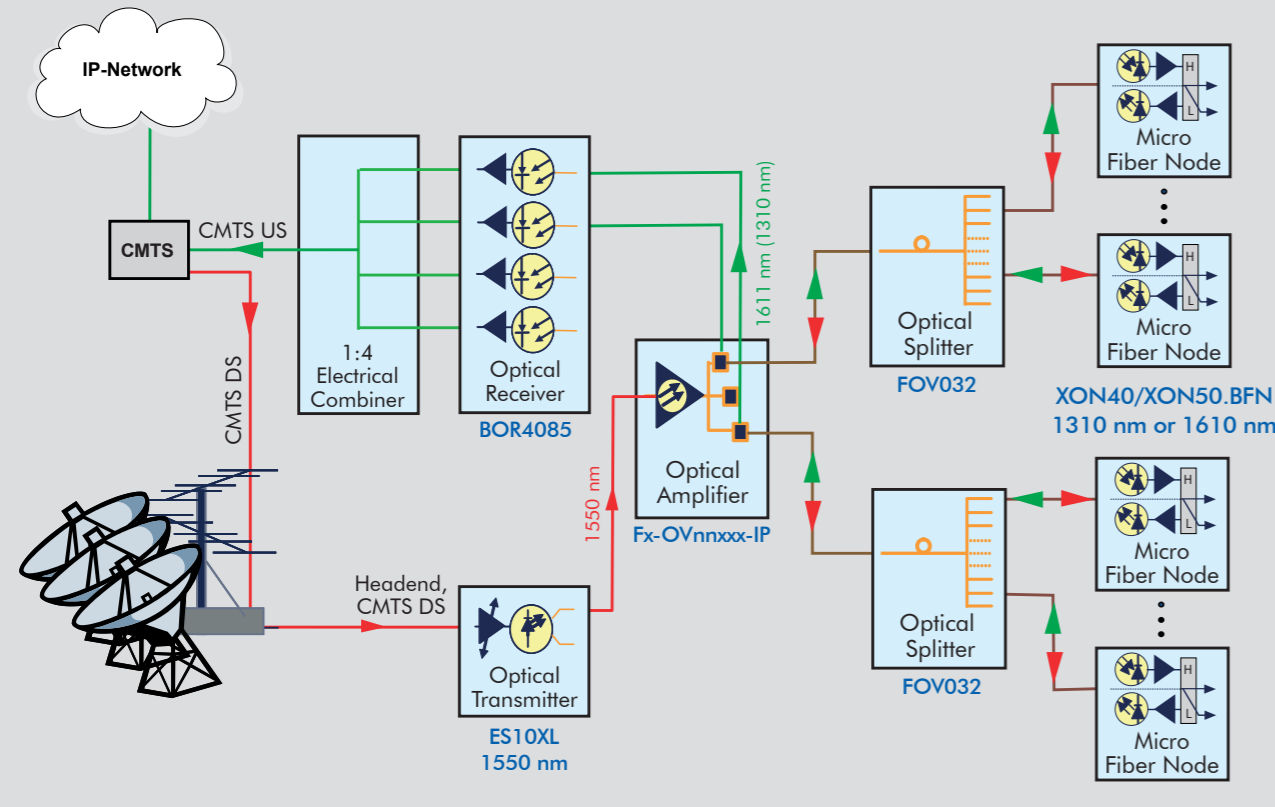


XON40.BFN



XON50.BFN

Network Architecture (Example)

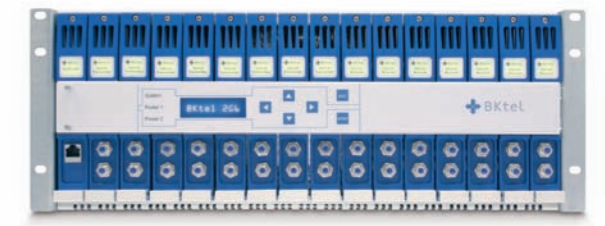


Optical Return Channel Receiver

- ◆ Ultra low noise receiver technology (Noise Current < 0.8 pA/√Hz)
- ◆ Bandwidth: 5-85 MHz
- ◆ Additional RF combination output 4:1
- ◆ Available in 2G6 or BK units
- ◆ 2G6: OR2200 for Indoor Applications with highest port density
- ◆ BK: BOR4085 for In- and Outdoor Applications



OR2200



2G6 for Indoor Applications



BOR4085



BK for In- and Outdoor Applications