ENABLENCE RFOG MICRO NODE

The RFoG Micro Node provides full RF services over a fiber optic distribution network. The RFoG Micro Node can either be deployed as a standalone RFoG ONT or in conjunction with an EPON or GPON ONT as the network requirements evolve. The RFoG Micro Node enables operators to progress from an HFC infrastructure to an all optical distribution network without abandoning investments in DOCSIS and RF systems.

BENEFITS

- Compact footprint
- Single Fiber WDM technology with 1490 nm and 1310 nm pass through for GPON or EPON overlay
- 1310nm, 1590 nm or 1610 nm transmitter options
- Industrial temperature rated
- RF output up to 1GHz suitable for distribution within subscribers home
- Flexible powering at local or remote sites

FEATURES

- Ideal for delivering RF services over fiber optic distribution network (RFoG)
- High Bandwidth delivery to business and residential customers
- Delivering RF services over a GPON or GEPON network

APPLICATIONS

- Provides an easy migration from HFC to fiber PON based distribution networks
- Fully compatible with existing RF headend and customer premises equipment
- Full compatibility with RFoG and GPON/EPON allows for a hybrid service model

DATA SHEET

SPECIFICATIONS

Receiver

Optical

- Input Wavelength: 1540 to 1560 nm
- Optical Input Power : -6 to +1 dBm AGC controlled
- Optical Power Test Point: 1 V/mW
- Optical Indicator On: > -6 dBm

RF Specifications

- Frequency Bandwidth: 54 to 1003
- Impedance: 75 Ohms
- Flatness: +/-0.8 dB
- Output Return Loss: ≥16 dB
- Operating RF Output Level* (with 3 dB slope (typically): 19 dBmV (norm) and 550 MHz (analog channel)
- RF Output Stability (with optical input and temperature): +/-3 dB
- Distortion**
    - CTB: ≥60 dBc @-3.5 dBm Optical Power Input
    - CSO: ≥60 dBc @ -3.5 dBm Optical Power Input
- Carrier to noise ratio
    - ≥48 dB @ -3.5 dBm Optical Power Input

Transmitter

Optical

- Output Wavelength:
    - 1310 nm +/-50
    - 1590 nm +/-10
    - 1610 nm +/-10
- Optical Output Power: 2dBm min, 4dBm max
- Optical Return Loss: >55 dB for APC Connector
- Optical Indicator On: Burst Enable Status

General Specifications

LEDs: power, optical input, transmit status
Power: 3.5 Watts, 10.5 to 22 volts DC
Dimensions: 4.5”H x 3”Lx .8”D

For more information
visit www.enablence.com