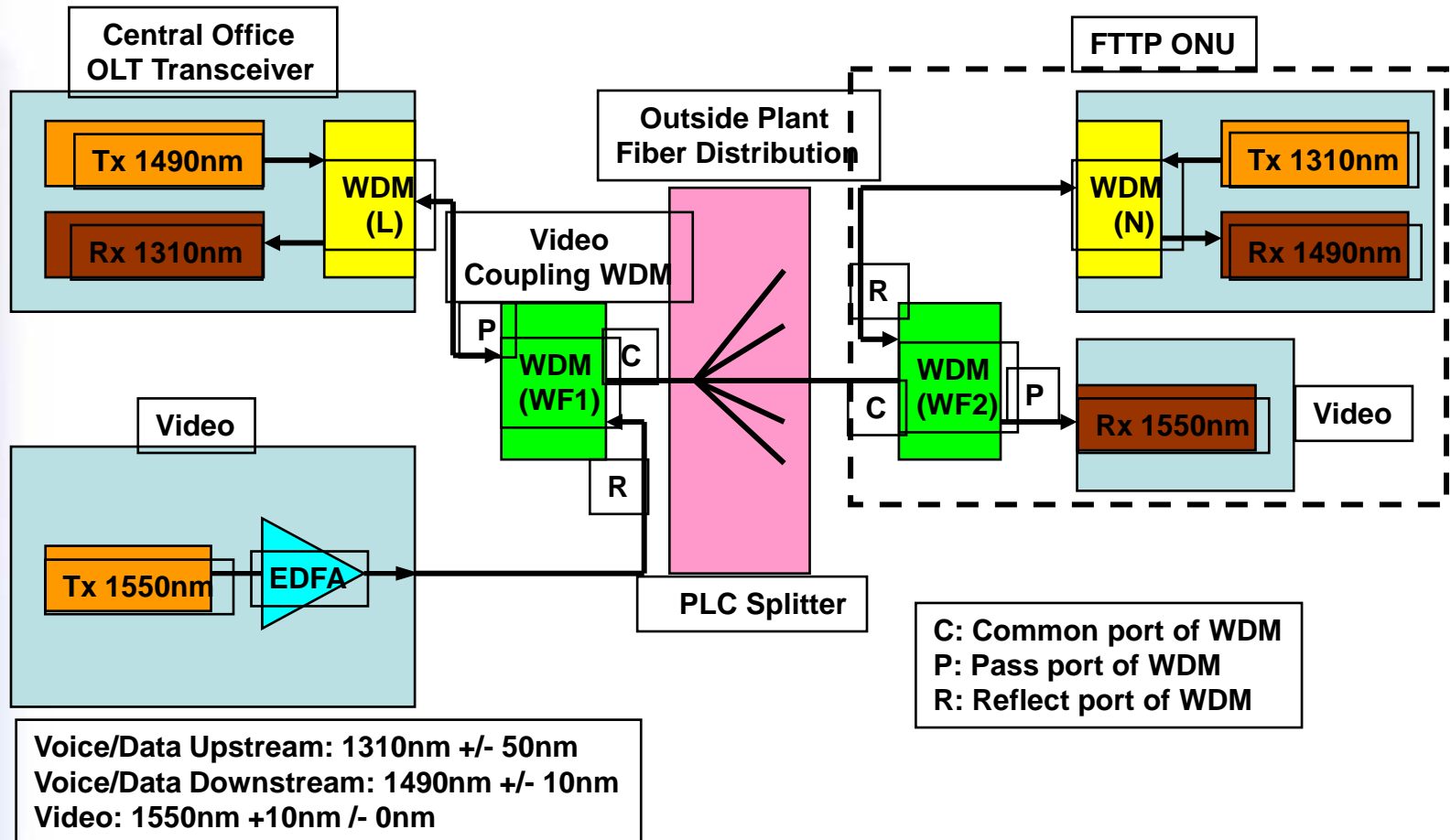


FTTH G(E)-PON OPTICAL SOLUTIONS



1550nm CATV Transmitter



Features:

- 45 to 870 MHz forward bandwidth
- RF pre-distortion circuit for excellent CNR and low distortion performance
- Adjustable SBS threshold (13, 16, 18dBm)
- Unique simultaneous SBS/SPM suppression for point-to-point and point-to-multiple application
- Microprocessor control & monitoring
- Automatic and manual gain control mode
- 19-inch 1RU rack mount housing with front panel LCD display
- RS485 control interface
- Remote monitor capability with SNMP

Applications:

- CATV and Broadband Video Transmission
- HFC Equipment
- Broadband G-PON System
- FTTH System Deployment

1550nm CATV EDFA

Introduction

Titan CATV EDFA series are high performance optical amplifiers designed for 1550nm based network applications. The 1550 CATV series is available in 19-inch 1RU rack-mount, which it is the most cost effective solution for long distance video transmission.

Titan CATV EDFA has standard output power ranging from 13 to 24 dBm with the highest power range in its class. Titan CATV EDFA is part of Titan Transmission Products to enhance the deployment of traditional HFC and fiber to the home (FTTH) Networks.

Featured with front panel LCD display and SNMP functions, Titan CATV EDFA could be design capabilities to meet customer's specific requirements.



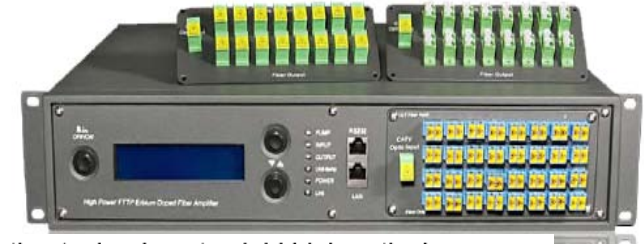
Product Key Features

- 1RU, 19" rack housing with front panel LCD display
- +13 to 24 dBm output power range
- High reliability 980/1480 pump laser diode
- RJ-45, RS232, SNMP.
- High-efficiency installation, easy operation.
- Low noise, high performance.

Applications

- CATV
- FTTP (EPON, GEAPON, GPON)

1550nm High Power EDFA



H-EDFA adopts single mode pump, EDF and multi-pumps integration technology to yield high optical amplification. The technology is optimized for low noise and allows clear transmission of video, voice and data signals.

There are two models for Titan H-EDFA.

H-EDFA-1: 1RU chassis, total output power >1000mW, 8 uplink optical ports, for OLT. 8 1550nm output optical port, multiply 1310/1490 data stream.

H-EDFA-2: 2RU chassis, total output power >4000mW, max. 32 uplink optical ports, for OLT. 32 1550nm output optical port, multiply 1310/1490 data stream.

Product Key Features

- Total output power: 400~4000mW.
- 8~32 uplink optical ports, for OLT
- 8~32 1550nm output optical port, multiply 1310/1490 data stream
- RJ-45, RS232, SNMP.
- High-efficiency installation, easy operation, flexible.
- Low noise, high performance.
- High power to price ratio.

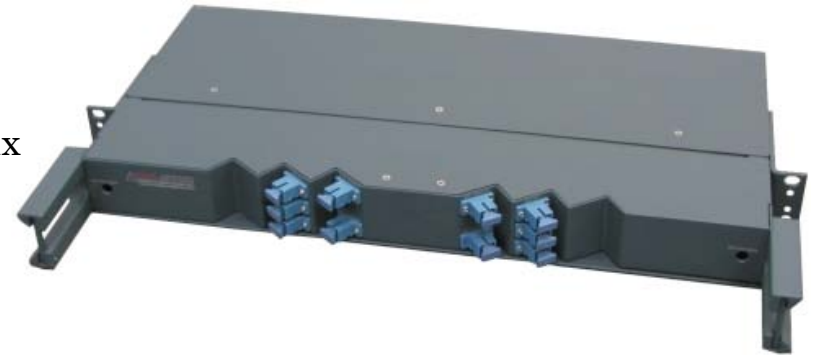
Applications

- CATV
- FTTP (EPON, GEAPON, GPON)

KEY OPTICAL COMPONENTS & MODULES :

➤ Passive Products:

- Athermal AWG (100GHz 40CH)
- FSAN 1310/1490/1550 WDM
- 2-IN-1 DWDM & CWDM Mux/Demux
- High Isolation FWDM
- Optical Mechanical Switch
- Variable Optical Attenuator
- PLC Splitters – 1x32, 1x16, 1x8
- Interleavers – 50GHz, 100GHz
- Couplers 1x2, 1x3, 1x4 Splits
- Tap Coupler (SM, MM)
- NC/BC Passive Combiners



➤ Active Products:

- GPON & GEAPON SFP/SFF
- XFP 10GHz – 850nm & 1310nm
- Gigabit Ethernet Optical Transceivers
- Multi-Rate & 4G Fiber Channel TRX



➤ EDFA, OCPM, OSC (R-ODAM)

(PLC) Planar Waveguide Splitter

is the optimal product for high-port count applications. This planar waveguide based chip design provides the highest product performance and reliability under the most adverse environments. Common splitting ratio includes 1x64, 1x32, 1x16, 1x8 and 1x4.

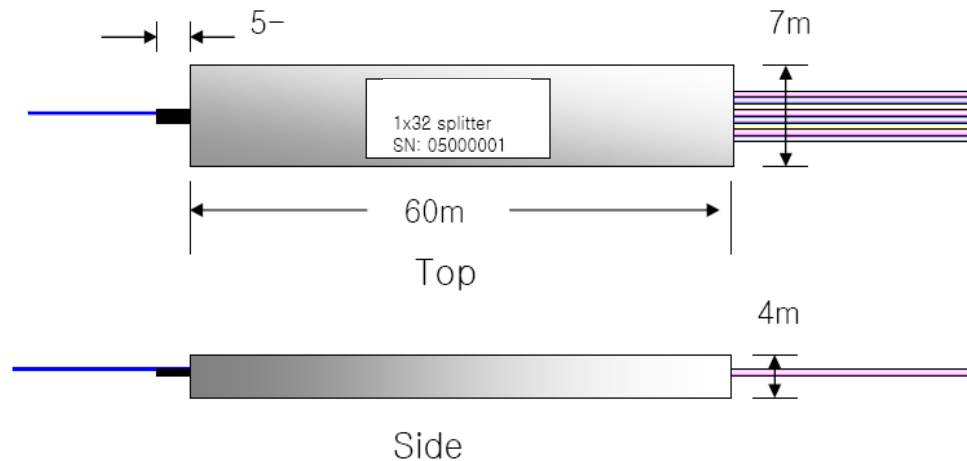


Figure 1 : Dimensional drawing of 1X32 Splitter module

Optical Mechanical 1x2 & 2x2 Redundancy Switch

is the optimal product for FTTH network redundancy protection. This optical mechanical switch provides the highest product performance and reliability under the most adverse environments. It has been qualified by GR-1073 reliability standards and have proven to be the most durable solution in the field.



Variable Optical Attenuator

- Solid-state reliability – no moving parts & no vibration
- Compact packaging
- Fast dynamic response
- Simple DC analog control
- Low IL, PDL and PMD
- Wide dynamic range over a wide temperature range
- Good spectral flatness
- High attenuation resolution



NEW!!

Titan GPON OLT SFP

Features:

- Class B+ Optical Line Terminal (OLT) G-PON Transceiver
- Hot Plug Capability with SFP 20-pin Connector
- 2.488 Gbps (1490 nm) Downstream Continuous Mode Transmitter
- 1.244 Gbps (1310 nm) Upstream Burst Mode Receiver with 2R Output
- Reset-less BM Receiver with 32 Bits Packet-to-Packet Guard Time for Over 15dB Packet Optical Power Difference
- Integrated 1310 nm RX with BM Detector Preamplifier (IDP) Mounted in an Optical Header and a BM Limiting Post-Amplifier IC
- Multiple Quantum Well 1490 nm DFB Laser
- High Resistance of BM TX to DC Optical Background
- Standard 0 to 70 °C Operating Temperature
- Extended -20 to 85 °C Operating Temperature Available
- Single +3.3 V Power Supply
- AC Coupling Input on TX; DC Coupling Output on RX
- Class 1 Laser International Safety Standard IEC-60825 Compliant



Applications:

- Broadband G-PON System
- FTTH System Deployment

NEW!!

Titan GEPON OLT PX-20+ SFP

Features:

- Gigabit Ethernet Optical Line Terminal (OLT) Transceiver for IEEE 802.3ah-2004-PX-20+
- Small Form Factor SFP SC package
- 1.25 Gbps (1490 nm) Downstream Continuous Mode Transmitter
- 1.25 Gbps (1310 nm) Upstream Burst Mode Receiver with 2R Output
- Reset-less BM Receiver
- BM RX with transceiver Settling Time < 400 ns
- Analog Output for Received Power Monitoring
- High Resistance of BM TX to DC Optical Background
- Standard 0 to 70 °C Operating Temperature
- Single +3.3 V Power Supply
- AC Coupling Input on TX; DC Coupling Output on RX
- Class 1 Laser International Safety Standard IEC-60825 Compliant



Applications:

- Broadband Gigabit Ethernet PON System
- FTTH System Deployment