Titan Photonics introduces the Optical Transport Chassis (OTC) system

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FREMONT, Calif. -- Titan Photonics, a market leader in optical components and network subsystems, introduces its OTC system (Optical Transport Chassis) a unified optical transport system for CATV providers.

The OTC shelf is a 4RU, 19" rack mountable system with 14 universal service slots. It includes a card cage, a shelf controller, and AC or DC redundant power supplies and cooling. The OTC is SNMP managed using the SCTE HMI MIBS, or can be operated from the front panel. It supports long-haul, HFC, RFoG, and PON-RF Overlay applications. Service modules for the OTC system are hot-swappable, single wide devices and any module can be placed in any slot in any combination. They are automatically configured for operation in seconds, making the Titan OTC one of the most versatile CATV delivery systems in the industry.

OTC Service modules:

1310nm Transmitter module The TCDT13 transmitter module is a full service, 1310nm CATV supporting HFC and video transport applications. It can be ordered with output power from +6dBm to +13dBm for use in long-haul or HFC applications. This low noise directly modulated transmitter supports a full 78 NTSC channel loading, has advanced distortion pre-compensation, and automatic power control, (APC). Up to 14 TCDT13 transmitters can be installed in one OTC shelf.

1550nm Transmitter module The TCDT15 transmitter module is a full service, 1550nm CATV transmitter designed to support the HFC, RFoG, PON overlay and long-haul applications. It can be ordered with +6dBm, +8dBm or +10dBm output power for use in either long distance transmission, or to serve multiple EDFAs in overlay/RFoG applications. This low noise directly modulated transmitter operates from 47 to 1GHz, has automatic SBS suppression, automatic power control, (APC) and supports optical links up to 40 KM. Up to 14 TCDT15 transmitters can be installed in one OTC shelf.

Optical Amplifier module The TCSEDF EDFA module is a high performance low cost optical amplifier for 1550nm optical networks. It is available with total optical power from 13dBm to 23dBm with one or two optical outputs. It utilizes optical power control (OPC) for extremely stable operation across a wide input power. Up to 28 optical distribution links can be served from a single OTC shelf

48501 Warm Springs Blvd., #106 | Fremont, CA 94539 | T 510.687.0488 | sales@titanphotonics.com

HFC Return Path Receiver module **T**he TCRHFC RPR module is a robust low cost return path receiver designed for HFC /DOCSIS3 networks. Each module contains two return path receivers each supporting a wide spectral input (1,100nm to 1620nm), a -10 to 0dBm input power level, and a frequency response of 5 to 200MHz. Each receiver is independently controlled including a 15dB software controlled PAD on the RF output. Up to 28 HFC return paths can be served from a single OTC shelf.

RFoG Return Path Receiver module The Titan TCRRFG Return Path Receiver module is designed specifically for RFoG applications. It receives the burst mode return path signals from standard 1310nm or 1610nm based RFoG ONUs. Its industry leading high sensitivity design with <0.75pA/sqrt(Hz) allows a minimum received optical power of -27dBm with dynamic range of 11 dB, simplifying deployment and allowing 64 split RFoG networks. Each module contains two independent receivers each with a software controlled 30dB PAD on the RF output. Up to 28 RFoG return paths can be served from a single OTC shelf.

About Titan Photonics

Founded in 2005, and headquartered in Fremont, California, Titan Photonics has obtained expertise in optical systems and technologies that are proving key to unlocking the potential of optical networks.

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