advanced media technologies®

Optical Subscriber Line Access Modulator

MODEL

OSLAM-8

PBN Pacific Broadband Networks

Description

The Light Link® Series 3, Optical Subscriber Line Access Multiplexer (OSLAM) module is designed to deliver full bandwidth cable television together with a 100 Mbps fast Ethernet over one bi-directional single mode fibre core per node. Each OSLAM module will serve up to eight nodes. A node can be a CPON1315 for a single family home, but it could also be an FPR-100W node for an apartment building or a fibre-to-the-curb pedestal for multiple subscribers. The advanced OSLAM fibre optic access multiplexer provides the basic building block for highly scalable fibre-to-the-home (FTTH) and fibre-to-the-block (FTTB) applications.

The OSLAM is an OCM chassis compatible module, complete with network management facilities and comprehensive status and alarm monitoring features.

The OSLAM employs either four or eight built-in fast Ethernet media converters, each equipped to handle a full duplex 100 Mbps digital subscriber line operating with 1310 nm single wavelength, single mode, single fibre technology.

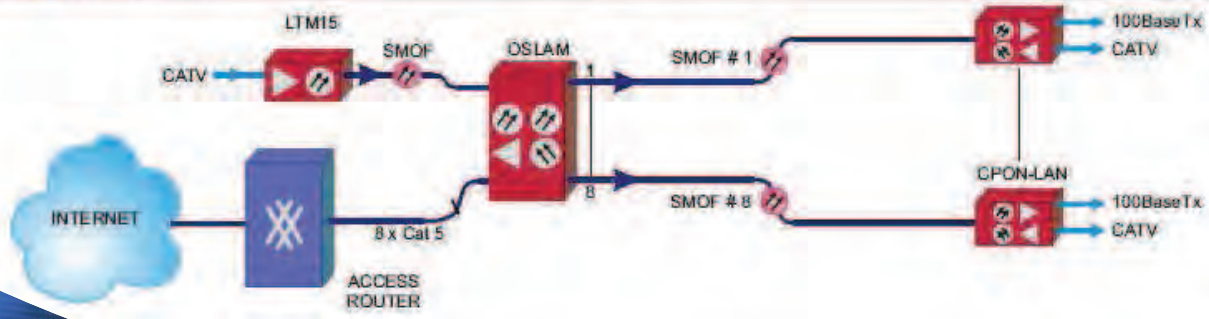
Full bandwidth CATV services are injected as an overlay on each subscriber line at 1550 nm, via integrated optical wavelength division multiplexers.

The compact OSLAM design provides capacity for up to 32 line ports per single OCM chassis. Each line port can serve a remote optical node with many subscribers, greatly reducing network costs.

Features

- Provides around five Gigabit per second bandwidth for multicast delivery of digital video broadcasting (DVB), traditional analog CATV, radio and television broadcasting, data multicasting and other services, together with a full duplex 100 Mbps Fast Ethernet digital subscriber line on each port.
- Optical injection for 1550 nm forward path cable television transmission through an integrated optical wavelength division multiplexer for each subscriber line.
- Full duplex fast Ethernet transmission via only one bi-directional fibre core.
- Compliant with relevant IEEE 802.3 standards.
- RJ45 full duplex Ethernet ports for easy connection to a local access switch.
- Link status and data LED indicators for each subscriber line on both optical and copper side.
- Full compatibility with the OCM network management system (NMS3).
- E2000/APC or SC/APC optical subscriber ports.

Application



Specifications

Optical

Bi-directional transmission over one singlemode optical fibre.

Operating wavelength	
CATV forward path:	1550 nm
Bi-directional data transmission:	1310 nm
Optical connectors:	SC/APC, E2000/APC
Optical line speed:	125 Mbps full duplex
Data link budget:	6 dB @ 1310 nm
CATV forward path through loss @ 1550 nm:	< 10.7 dB
Optical wavelength division multiplexers:	Integrated per port 1310 / 1550 nm

Electrical

Ethernet ports:	RJ45, one for each subscriber line
Data port speed:	10/100 Mbps auto-negotiating
Operation mode:	Full/half duplex
Indicators:	Link status, RX data

General

Power:	Powered by OCM system
Operating temperature:	0 to 45°C
Dimensions: (HxWxD)	160 x 88 x 360 mm
Ship size: (HxWxD)	280 x 140 x 570 mm
Weight:	1 kg
Ship weight:	1.5 kg
Network management:	NMS3 via OCM system

Ordering Information

OSLAM-[Y]-[Z]

Optical subscriber line access multiplexer.

Y	8	8 subscribers per module (2 slot)
Z	SC	SC/APC optical connectors
	E	E2000/APC optical connectors

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