EKINOPS360

EKINOPS RM OAC17-WB

Open White Box Optical Line Amplifier for C-band

KEY FEATURES & BENEFITS

- 1RU White Box design
- Bi-directional EDFA
- Independent monitoring point for each direction
- Dynamic gain range
- Variable output power
- Automatically adjusts for fiber aging
- Integrated optical supervisory channel
- NETCONF/YANG management-ready

APPLICATIONS

- Coherent, non-dispersion compensated networks
- EKINOPS RM ROADM-H4-WB and RM ROADM-H10-WB-based networks
- C-band based DWDM networks

OVERVIEW

EKINOPS RM OAC17-WB is a 1RU rack mountable EDFA-based amplifier that simplifies the process of commissioning and expanding ROADM networks. Part of EKINOPS White Box solution set, the RM OAC17-WB is designed to extend the range of the companion RM ROADM-H4-WB and RM ROADM-H10-WB devices *(see separate data sheets)* by providing inline amplification with settable output power levels and a wide variable gain range. Supporting all channels across the C-band, it has been architected to deliver both superior performance and cost-efficiency for the next generation of open line systems based on white box solutions.

The RM OAC17-WB has bi-directional capability with monitoring points at both egress points for full power monitoring and alarming capabilty in each direction. With its advanced functionality, the RM OAC17-WB automatically compensates the gain settings for both degradation over time due to aging or splicing, as well as for fast transient power fluctuations caused when channels are added and removed. This automated power adjustment capability eliminates the need to manually re-balance the network as it evolves, avoiding OSNR impact on any of the channels.
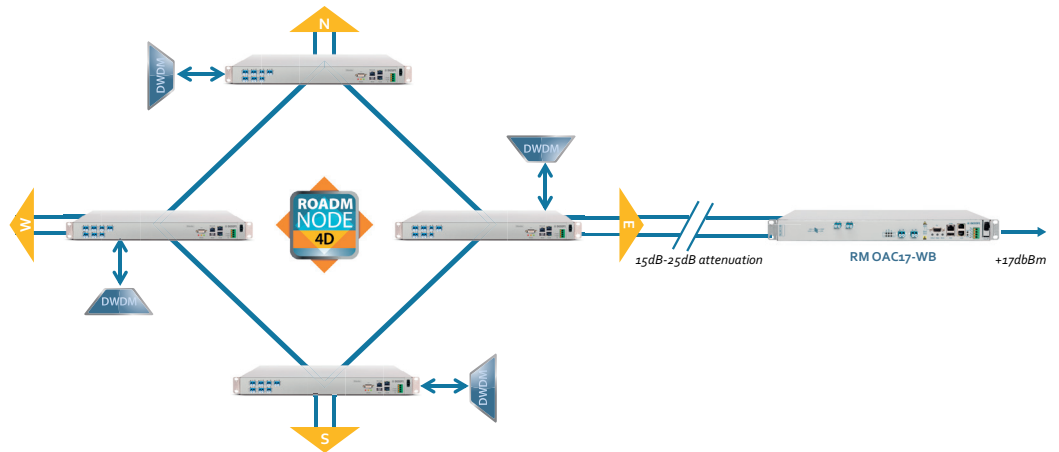

Figure 1: RM OAC17-WB extends transport distance of a ROADM network

EKINOPS
Empowering Networks

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MANAGEMENT

The EKINOPS OAC17-WB can be managed through SNMP or via the Ekinops standard element level management interfaces, which include a Command Line Interface *(CLI)* and an Ekinops Graphical User Interface *(GUI)*. The CLI is accessible via Secure Socket Shell *(SSH)* and Telnet remotely or via a local serial port on the management board

Complete performance monitoring and management are provided by Celestis **NMS**, the Ekinops advanced Network Management System and, in a future evolution, through any SDN controller via NETCONF interface.

SPECIFICATIONS

• AMPLIFIER CHARACTERISTICS

Protocol	+17 dBm
Gain	Variable from +15 dB to +25 dB
Noise figure	5.5 dB

• PHYSICAL SPECIFICATIONS

Optical connectors	Dual LC
Power consumption *(typ.)*	25 W
Power consumption *(max.)*	25 W
Size	1 RU
Operating temperature	0℃ to +50℃ / +32°F to +122°F
Storage temperature	-20℃ to +85℃ / -4°F to +185°F

• MANAGEMENT

MIB	SNMP V2c Private MIB
Remote Management	1510 nm OSC channel

• REFERENCE STANDARD

ITU-T G.691, ITU-T G959.1, ITU-T G694.1

ORDERING INFORMATION

RACK MOUNTABLE MODULE (RM)

PRODUCT CODE	DESCRIPTION
RM_OAC17-WB	1RU Variable Gain Optical Line Amplifier, 15 to 25 dB gain, +17 dBm output, power, for WDM application over the C-band. Includes 1510 nm Optical Supervisory Channel.

CONTACT

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