

EKINOPS CM OM8-xy-ETR

DWDM Optical Multiplexer Family

DATA SHEET 09 | 2020

KEY FEATURES & BENEFITS

- Cost effective network upgrade
- Low profile with 4 modules in 1RU
- Per-channel bandwidth additions multiply fiber capacity up to 32x
- Single fiber operation
- Low insertion loss for maximum performance
- Extended Temperature Range (ETR) -40°C to +65°C / -40°F to +149°F for deployment in any location
- Completely passive, no power or maintenance required

APPLICATIONS

- High density Mobile Backhaul (MBH) / Mobile Fronthaul (MFH)
- Network upgrades from single to multi-channel
- Metro transport
- Relief for fiber exhausted route
- Single fiber networks

— IMPROVE YOUR FIBER EFFICIENCY WITH COST EFFECTIVE, EASY TO DEPLOY DWDM MULTIPLEXERS.

OVERVIEW

With the increasing use of both fixed and mobile video and data, the demand for bandwidth out to every cell tower continues to rise. For metro transport, fiber scarcity is a major roadblock for network operators that need to expand the number of customers they can reach and the number and capacity of the services they can deliver.

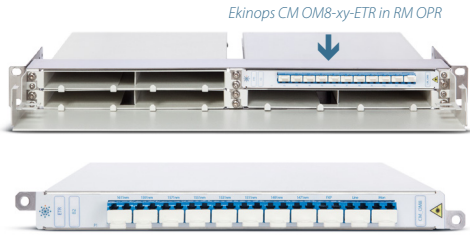
Ekinops CM Optical Multiplexer (OM) series of Dense Wavelength Division Multiplexing (DWDM) solutions provide network operators with a way to selectively add up to 32 channels one wavelength at a time to rapidly provision additional bandwidth and services at a fraction of the investment required to deploy new fiber. Whether rings, hub-and-spoke or point-to-point links; dark or lit fiber, even single fiber networks, Ekinops DWDM solutions enable network operators to eliminate fiber constraints, leverage existing fiber plant investments, and accelerate revenue generation.

FUNCTIONAL DESCRIPTION

The Ekinops solution is based on a 1RU passive chassis which can hold a mix of various elements such as OMs and Optical Add & Drop Multiplexers (OADMs). The OM modules support 8 channel multiplexing schemes in single or dual fiber configurations covering the C-band from 1528 nm and scale efficiently and cost-effectively by using the available Upgrade Port to add more channels.

The modules support Extended Temperature Range (ETR) so they can be deployed in environmental extremes from -40°C to +65°C / -40°F to +149°F.





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SPECIFICATIONS

PHYSICAL SPECIFICATIONS

Optical connectors	LC/PC
Module size	1 slot in Ekinops RM_OPR
Operating temperature	-40°C to +65°C -40°F to +149°F
Storage temperature	-40°C to +85°C -40°F to +185°F

REFERENCE STANDARD

ITU G.694.1; RoHS 6

OPTICAL CHARACTERISTICS

Channel Spacing	100 GHz
Insertion loss —COM to Ports 1-8	Max 3.5 dB
Insertion loss —COM to Upgrade	Max 0.8 dB
Combined insertion loss	Max 5 dB
Isolation (Adjacent Channels)	25 dB Min
Isolation (No Adjacent Channels)	40 dB Min
PDL	0.25 dB Max
Optical return loss	45 dB Min
Connector type	LC/PC

ORDERING INFORMATION

CASSETTE MODULE (CM)

PRODUCT CODE	DESCRIPTION
CM_OM8-B1-ETR	Cassette Mounted 8 Channel MUX/DMUX, for RM_OPR, ETR (-40°C to +65°C), with upgrade ports, CH44-51
CM_OM8-B2-ETR	Cassette Mounted 8 Channel MUX/DMUX, for RM_OPR, ETR (-40°C to +65°C), with upgrade ports, CH53-60
CM_OM8-R1-ETR	Cassette Mounted 8 Channel MUX/DMUX, for RM_OPR, ETR (-40°C to +65°C), with upgrade ports, CH30-37
CM_OM8-R2-ETR	Cassette Mounted 8 Channel MUX/DMUX, for RM_OPR, ETR (-40°C to +65°C), with upgrade ports, CH21-28
CM_OM8-BR1-ETR	Cassette Mounted 8 channels optical Blue Band MUX (ch 44-51) / Red Band DMUX (ch 30-37), for RM_OPR, ETR (-40°C to +65°C), with upgrade ports.
CM_OM8-RB1-ETR	Cassette Mounted 8 channels optical Red Band MUX (ch 30-37) / Blue Band DMUX (ch 44-51), for RM_OPR, ETR (-40°C to +65°C), with upgrade ports
CM_OM8-BR2-ETR	Cassette Mounted 8 channels optical Blue Band MUX (ch 53-60) / Red Band DMUX (ch 21-28), for RM_OPR, ETR (-40°C to +65°C), with upgrade ports.
CM_OM8-RB2-ETR	Cassette Mounted 8 channels optical Red Band MUX (ch 21-28) / Blue Band DMUX (ch 53-60), for RM_OPR, ETR (-40°C to +65°C), with upgrade ports

RACKABLE MODULE (RM)

PRODUCT CODE	DESCRIPTION
RM_OPR	Optical Passive Rack with Cover, 1U, 4 Cartridges capacity, ETR (-40°C to +65°C).

CONTACT



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