DATA SHEET

CHP Max Headend Optics Platform

CHP-OPM

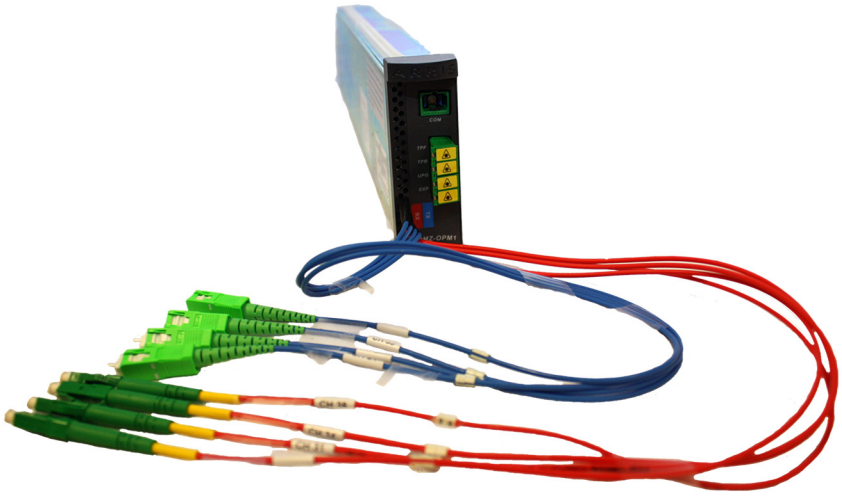
Optical Passive Module

FEATURES

- Provides ease of use with fewer optical connections to make in DWDM applications
- Significantly increases headend density by integrating optical passives into the CHP platform
- Designed for CommScope Multiwavelength plans for superior performance
- Low insertion loss for maximum performance
- Integrated with CORView Element Management System to show CHP module inventory

Dense Wave Division Multiplexing (DWDM) is a technique used to increase transmission capacity by adding multiple optical channels onto a single fiber. CommScope CHP-based optical passives provide a higher density solution by allowing users to utilize unused chassis space and reduce the need for a separate optical passive chassis. CommScope has also integrated the CHP-OPM into the CORView™ Element Management System software to allow users to see available chassis space.

The CHP OPMs are designed specifically for the CommScope Broadband Full Spectrum Multiwavelength plan. This plan allows for operators to use on-channel ITU standard passives and minimize the Four Wave Mixing effects seen in downstream transmission when doing multiple wavelengths co-propagating on a single fiber.



Optical passive modules are currently available in 8-way models. 20 dB test points are offered to monitor channels and levels without having to disrupt the network signal. The models also offer upgrade ports to allow for future expansion of networks when additional segmentation is required. All modules use 100 GHz thin film filter technology and are all centered on ITU standards-based channels. The headend modules utilize both SC/APC and LC/APC connectors to match connections to the high density, single-wide CHP application modules.

SPECIFICATIONS

Characteristics	Specification
Physical	
Fiber Pigtail Length	19 inches (48.25 cm)
Dimensions	18.5 in D x 1.25 in W x 3.4 in H (47 cm x 3.2 cm x 8.7 cm)
Environmental	
Operating/Storage Temperature	-40° to +85°C (-40° to 185°F)
Operating/Storage Humidity	5% to 85% RH
General	
Channel Passband	± 0.125 nm
Passband Ripple Flatness	0.25 dB max
Insertion Loss, Per Channel	3 dB max
Insertion Loss Uniformity	0.25 dB
Adjacent Channel Isolation	35 dB min
Optical Return Loss	45 dB min
Directivity	55 dB min
Input Optical Power Rating	300 mW
Test Point Loss	20 dB
Upgrade Port Loss	1 dB max

ORDERING INFORMATION

Model Name	Description
CHP-OPM1-Z08DM-B	CHP Optical Passive Module (Downstream 21, 28, 33, 39/Upstream 29, 31, 34, 38), Front Fiber; Optical Connector: Upstream LC/APC (8 degrees); Downstream SC/APC (8 degrees)
CHP-OPM1-MD08221-S	CHP Optical Module Multiplexer, SC connectors on pigtails, 8 red fiber pigtails, ITU CH: 21, 23, 25, 27, 29, 31, 33, 35
CHP-OPM1-MZ086DA-S	CHP Optical Module Multiplexer, SC connectors on pigtails, 8 blue fiber pigtails, ITU CH: 21, 24, 28, 33, 39, 52, 60, 62
CHP-OPM1-DZ086DA-S	CHP Optical Module Demultiplexer, SC connectors on pigtails, 8 blue fiber pigtails, ITU CH: 21, 24, 28, 33, 39, 52, 60, 62
CHP-OPM1-MD08243-S	CHP Optical Module Multiplexer, SC connectors on pigtails, 8 red fiber pigtails, ITU CH: 43, 45, 47, 49, 51, 53, 55, 57
CHP-OPM1-MZ046HJ-S	CHP Optical Module Multiplexer, SC connectors on pigtails, 4 red fiber pigtails, ITU CH: 24, 28, 33, 39

RELATED PRODUCTS

CHP Chassis	Optical Patch Cords
Power Supplies	Optical Passives
Management Module	Installation Services

Contact Customer Care for product information and sales:

- United States: 866-36-ARRIS
- International: +1-678-473-5656

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Note: Specifications are subject to change without notice.

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