

# 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 ARRIS Multiwavelength plans for superior performance
- Low insertion loss for maximum performance
- Integrated with CORView™ Element Management System to show CHP module inventory



### PRODUCT OVERVIEW

Dense Wave Division Multiplexing (DWDM) is a technique used to increase transmission capacity by adding multiple optical channels onto a single fiber. The ARRIS 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 passives chassis. ARRIS 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 ARRIS 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.

The 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**

Channel Passband	± 0.125 nm
Passband Ripple Flatness	0.25 dB max
Insertion Loss, Per Channel 8 Way	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
<b>Physical</b>	
Operating/Storage Temperature	-40 °F to 185 °F
Operating/Storage Humidity	5% to 85% RH
Fiber Pigtail Length	19 inches (48.25 cm)
Dimensions	Inches (cm)
D	18.5 (47)
W	1.25 (3.2)
H	3.4 (8.7)

**Note:**  
All features, functionality, and other product specifications are subject to change without notice or obligation.

**ORDERING INFORMATION**

Model #	Part #	Description
803947	CHP-OPM1-Z08DM-B	CHP-OPM1-Z08DM-B: Family: CHP Max5000; Type: 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)
803960	CHP-OPM1-MD08221-S	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
803961	CHP-OPM1-MZ086DA-S	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
803962	CHP-OPM1-DZ086DA-S	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
803963	CHP-OPM1-MD08243-S	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

**RELATED PRODUCTS**

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

## Customer Care

Contact Customer Care for product information and sales:

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

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