

CHP Max Headend Optics Platform

CHP Max5000® Optical Headend Solution Overview

FEATURES

- Optimize headend and hub efficiencies with industry leading density and low power consumption of up to 20 transmitters or 40 receivers per 2RU chassis
- Up to 44 full spectrum wavelengths for harvesting new bandwidth through node segmentation
- Support multiple optical architectures including full spectrum, overlay, and RFoG
- Integrated optical passives for further reduction of footprint
- DOCSIS® 3.1 support for future capacity expansion to 1.2 GHz downstream, 300 MHz upstream
- Transmitters with variable output reduce need for troublesome optical attenuators and front or rear fiber connection to simplify installation and cable management
- Configure, monitor, and manage with CORView™ Element Management System



SOLUTION OVERVIEW

CHP Max5000® Headend chassis applications converge HFC and digital transport onto a single scalable system, allowing operators to accelerate deployment of VOD, high-speed data, telephony, and other advanced services in a space-saving footprint. The CHP Max5000 offers 13 module slots in a 2RU chassis: 10 module slots for application modules, 2 for isolated redundant power supplies, and 1 for a local or remote management module. A high-speed shelf interconnect option with a 100 BaseT Ethernet connection provides operators with daisy chaining capability for multiple chassis, while front or rear fiber connection options provide them with installation and maintenance flexibility. By utilizing CHP Max5000® Headend chassis applications, operators can seamlessly and easily stay in line with future goals, add new services, and strongly position their services against the competition.

Increase Subscriber Satisfaction

CHP Max5000 isolated, load-sharing, redundant power supplies are efficient, switched mode modules that accept either AC or DC input. One power supply supports a completely loaded chassis, while two offer power redundancy that eliminates service interruption if one power supply or line-in feed service fails.

The CHP Max5000 provides Universal management through the Craft interface, SNMP with HMS, or remote IP access via a Craft Management Module (CMM) or System Management Module (SMM).

Add Value to Existing Assets

Operators with a large base of active CHP Max5000® Converged Headend Platform can seamlessly and easily transition to any CHP Max5000 application. The addition of new multiwavelength transmitters into the CHP Max5000 portfolio enables operators to maximize their installed fiber assets by multiplying the number of customers that can be serviced for more voice, video, and data services revenues.

RELATED PRODUCTS

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

APPLICATION MODULES

Model	Description
CHP-DW/SW	1 GHz Multiwavelength O-Band Forward Path Transmitter
CHP-C3	1.2 GHz C-Band DWDM Forward Path Transmitter
CHP-C2	1 GHz High Performance C-Band DWDM Forward Transmitter
CHP-GMOD	1 GHz 1550 nm Externally Modulated Broadcast Transmitter
CHP-RTX	Dual Input Return Path Transmitters
CHP-D2RRX CHP-2RRx/R2RR/L2RR CHP-R2RRFF CHP-R4RRXF/CHP-4RRXF	Digital Return Path Receivers Analog Return Path Receivers Analog Return Path Receivers, Dual Input, Front Fiber Redundant/Non-Redundant Quad Path Return Receivers
CHP-GFRX	1 GHz Redundant Forward Path Receivers
CHP-EDFA	Headend Erbium Doped Fiber Amplifiers
CHP-GAMP3	1 GHz 3-Input Forward Path RF Amplifier
CHP-OPTSWITCH	CHP OPTSWITCH for HFC, RFoG, and EPON

HOUSING ACCESSORIES

Model	Description
CHP-CHASSIS-19U	19-inch CHP MAX5000 chassis with enhanced backplane and slots for 10 application modules and 2 power supplies
CHP-CHASSIS-R- 19U	19-inch CHP MAX5000 recessed chassis for use with front fiber applications, includes enhanced backplane and slots for 10 application modules and 2 power supplies
CHP-EXTBKT-23	Bracket adapts 19-inch chassis to install in a 23-inch rack.
CHP-PS/AC1-SW	Isolated 475 Watt power supply accepting 110/220 Vac input.
CHP-PS/DC1-SW	Isolated 475 Watt power supply accepting –48 Vdc input.
CHP-CMM-1	Craft Management Module allows local monitoring and management via laptop computer connected to the RS-232 connector on the front of the CMM-1.
CHP-CMS-1	Craft Management Software provides graphical user interface (GUI) and enables local communication for module setup and monitoring of a CHP Max5000 shelf from a portable computer.
CHP-SMM-2	System Management Module provides all CMM functionality and SNMP port for remote management. Also provides remote access to the CMM interface using an IP connection through the Ethernet interface on the back of the shelf from the remote GUI software.

Customer Care

Contact Customer Care for product information and sales:

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

Note: Specifications are subject to change without notice.

Copyright Statement: ©ARRIS Enterprises, Inc. 2015 All rights reserved. No part of this publication may be reproduced in any form or by any means or used to make any derivative work (such as translation, transformation, or adaptation) without written permission from ARRIS Enterprises, Inc. ("ARRIS"). ARRIS reserves the right to revise this publication and to make changes in content from time to time without obligation on the part of ARRIS to provide notification of such revision or change. ARRIS and the ARRIS logo are all registered trademarks of ARRIS Enterprises, Inc. Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks and the names of their products. ARRIS disclaims proprietary interest in the marks and names of others. The capabilities, system requirements and/or compatibility with third-party products described herein are subject to change without notice.

CHP Platform Overview_DS_15SEP14

(rev 9-2014)