

# ARRIS CHP-MAX

## CHP-MAX5000 OPTICAL HEADEND 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.

- 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

## APPLICATION MODULES

MODEL NAME	DESCRIPTION
CHP-D1/S1	1.2 GHz Multiwavelength O-Band Forward Path Transmitter
CHP-CW4 (CORWave 4)	1.2 GHz C-Band DWDM Forward Path Transmitter (Quad Density)
CHP-CW4-HOST	Quad Density Solution Host Module
CHP-C3 (CORWave 3)	1.2 GHz C-Band DWDM Forward Path Transmitter (Dual Density)
CHP-C2 (CORWave 3)	1 GHz High Performance C-Band DWDM Forward Transmitter
CHP-GMOD	1 GHz 1550 nm Externally Modulated Broadcast Transmitter
CHP-RDF0	Dual Density Return Path Transmitters
CHP-4RRP	Integrated Passive Quad Upstream Receivers with Integrated Internal Optical Passives
CHP-D2RRX	Digital Return Path Receivers
CHP-2RRx/R2RR	Analog Return Path Receivers
CHP-R2RRFF	Analog Return Path Receivers, Dual Input, Front Fiber
CHP-R4RRXF/CHP-4RRXF	Redundant/Non-Redundant Quad Path Return Receivers
CHP-DFRX*	1.2 GHz Dual Density Redundant Forward Path Receiver
CHP-SFRX*	1.2 GHz Single Density Redundant Forward Path Receiver
CHP-EDFA	Headend Erbium Doped Fiber Amplifiers
FTT-EDFA	FTTMax® Erbium Doped Fiber Amplifiers, 2RU (Not CHP Based)
CHP-GAMP3	1 GHz 3-Input Forward Path RF Amplifier
CHP-OPM	Optical Passive Module
CHP-OPTSWITCH	Optical Switch for HFC, RFoG, and EPON

## HOUSING ACCESSORIES

MODEL NAME	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-FFTRAY-EXT	Extended Front Fiber Tray, replacement for CHP-FFTRAY
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.