Headend Optics Platform (HLP)

HLP4800

HL2 Series Broadband Platform

FEATURES

- High-density, modular broadband platform hosts up to 20 transmitters in 3RU
- Compatible with wide range of interoperable ARRIS application modules
- Enables seamless network management
- Two dedicated slots for hot-swappable primary and backup power supplies for uninterrupted operation
- Dedicated slot for hot-swappable display/controller module
- License-enabled, web-based SNMP interface

PRODUCT OVERVIEW

The HLP4800 is ARRIS's HL2 Series flexible platform for mounting broadband communications over hybrid fiber-coaxial (HFC) networks. Possessing a modular design and built-in communications interfaces, the HLP4800 provides operators with the infrastructure to meet emerging broadband network requirements. The 3RU chassis accommodates primary and backup power supplies and up to 10 of ARRIS' standard plug-in application modules or 20 high-density transmitter modules. This highly efficient design minimizes headend space requirements, making it an ideal platform for advanced broadband applications.

The HLP4800 is configured with the ARRIS HNC4801 network controller, a module that controls the communication bus of the HLP4800 platform and provides local and remote communications for system monitoring and control. The HNC4801 combines a display, five-button user interface and software-license-enabled WEB/SNMP interface. For enhanced system reliability and uptime, the HNC4801 is hot-swappable and can be removed, replaced or upgraded without interrupting module operation.

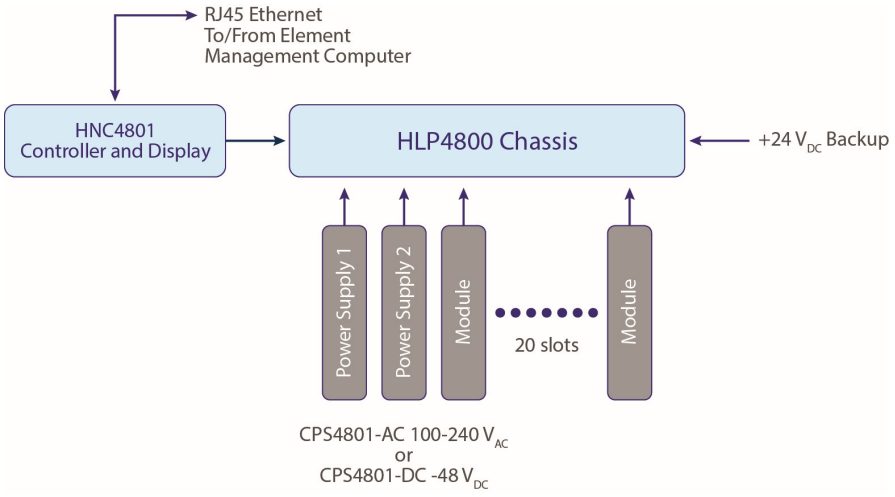
The HLP4800 is powered by the CPS4801 hot-swappable power supply, installed in a dedicated slot in the chassis. A second CPS4801 module may be installed, allowing the platform to operate in "hot" redundancy mode. A connector on the back of the HLP4800 chassis is provided for an additional +24 V_{DC} backup.

PLATFORM BENEFITS

HLP4800

The innovative design of the HLP4800 platform offers many advantages for the launch of emerging broadband services.

High-Efficiency Networking	
	The HLP4800 universal platform enables seamless network integration and management of diverse applications, providing user interface commonality and maximizing rack space efficiency. Built-in comprehensive local and remote element management allows monitoring and system control from one location, lowering network management costs and increasing network reliability.
Future-Proof Modularity	
A wide range of interoperable modules can be hosted on the HLP4800 chassis, including	• PWRLink® 1310 nm transmitters • SUPRALink® 1550 nm DWDM transmitters • METROLink™ gain-flat optical amplifiers • Return-path analog and digital optical receivers • Optical switches
	This modular approach provides the infrastructure for easy, cost-effective growth and the ability to accommodate current and future applications, making it easy to add new services.
High-Density Packaging	
	With the ability to accommodate two power supply modules and up to 20 transmitters in three rack units, the HLP4800 significantly reduces headend space requirements. Plug-in modules are individually fan cooled, allowing the platform to be tightly stacked without the need for thermal spacing. This contributes to significantly lower OPEX.
Flexible Power Bus	
	The HLP4800 power bus architecture allows the installation of both a 24-volt DC backup power interface module and redundant power supply, enabling automatic power backup for uninterrupted operation.
World-Class Service and Support	
	ARRIS stands behind the HLP4800—and all of its products—with comprehensive service and support programs, including system design, service deployment, technical support and network maintenance. With world-class service plans and a global network of local support professionals, ARRIS offers a flexible and responsive service and support team dedicated to maintaining outstanding "anytime, anywhere" viewer experiences.



SPECIFICATIONS

Characteristics	Specification
Physical	
Dimensions	19” W x 5.25” H x 13” D (48.3 cm x 13.3 cm x 33.02 cm)
Weight (without modules)	17.25 lbs (7.84 kg)
Mounting	19-in EIA rack, 3RU spaces
Module Slots	10 (accommodates 10 standard application modules or 20 high-density transmitter modules)
Environmental	
Operating Temperature Range	+32° to +122°F (0° to +50°C)
Storage Temperature Range	–40° to +185°F (–40° to +85°C)
Humidity	< 95% non-condensing
Power	
Backup Input Voltage	+24 V_{DC}
Backplane Current Capacity	15 A maximum
HNC 4801 Power Supply Consumption	4 W
User Interface	
Rear Panel	• Alarm-activated relay contact • +24 VDC backup • Grounding nut
Network Management	
SNMP Protocol	v1, v2c
HTTP Protocol	HTTP/1.1 (with web browser-based authentication)

ORDERING INFORMATION

Part Number	Description
HLP4800	
HMC4008	Module carrier for adapting the HRR4104, RDT4049 and RDR4002 modules to the HLP4800 chassis. One HMC4008 is required for every two modules
HMC4801	Module carrier for adapting quarter-width modules (SPL, PWL) to the HLP4800 chassis. One HMC4801 is required for every four modules.

RELATED PRODUCTS

HNC4801	HNC4801-WEB/SNMP
HMC4008	HMC4801
CPS4801	HFM4800

Customer Care

Contact Customer Care for product information and sales:

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Note: Specifications are subject to change without notice.

87-10734-RevF_HLP4800_BroadbandPlatform 01/2018 ECO13424