



## Broadband Platform HLP 4200

### Product Description

The HLP 4200 is Harmonic's flexible platform for mounting broadband communications equipment. The platform measures three rack units in height, accommodates a power supply and up to five of Harmonic's standard 2.6" wide plug-in modules, or up to ten of the "half width" 1.3" wide plug-in modules. It includes a common communication and DC power bus with RS-232 and RS-485 interface connectors. This high-density packaging design minimizes headend space requirements, making it an ideal platform for narrowcasting applications. With its modular design and built-in communications interfaces, the HLP 4200 provides operators with the infrastructure to meet emerging broadband network requirements.

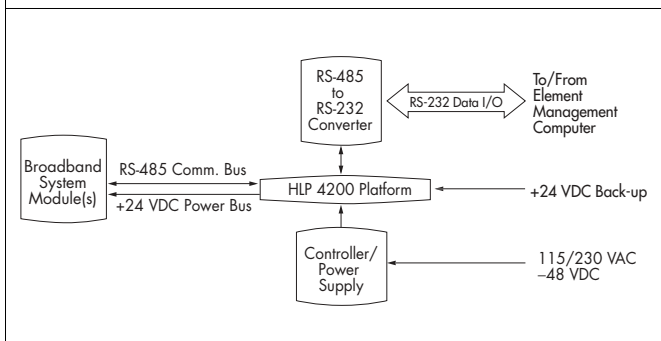
Two configuration options are available. Model HLP 4200WD, with the front panel display option, enables module set-up and monitoring via the 40 character alphanumeric display with push button controls. With the HLP 4200ND, without the front panel display, module set-up is accomplished via the module front panel function slide switch and set-up adjustment. With either option, module set-up and monitoring can also be accomplished using the NETWatc Element Management System or a local computer connection.

### Advantages

The innovative design of the Harmonic broadband system offers many advantages to address the needs of emerging broadband networks, making it a truly next-generation platform:

- Accommodates a wide range of interoperable modules, including:
  - PWRLink™ 1310 nm transmitters
  - MAXLink™ 1550 nm transmitters and optical amplifiers
  - METROLink™ ITU Grid DWDM transmitters and gain flat optical amplifiers
  - Optical receivers and switches

### Standard Configuration



- Optical multiplexers and demultiplexers
- Power supplies
- RF upconverters
- RF amplifiers
- Universal platform approach enables seamless network management integration of diverse equipment, 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.
- Modular platform provides infrastructure for easy, cost-effective growth to accommodate current and future modules, providing added capabilities.
- High-density packaging reduces headend space requirements by accommodating one power supply module and up to five standard (2.6" wide) modules, or ten of the half-width (1.3" wide) modules in three rack units of height.
- Plug-in modules are all individually fan cooled, allowing the platform to be tightly stacked without a need for thermal spacing.
- Power bus architecture allows both 24 Volts DC back-up powering interface module and redundant ("hot") power supply capability to provide automatic power back-up for uninterrupted operation.
- Guaranteed performance stability over a wide operating temperature range offers increased flexibility in system planning.

## User Interface

Front Panel	
Five Control Buttons	
Bi-state Status LED	Normal = Green, Alarm = Red
	Super luminescent 40 character alphanumeric display

Rear Panel	
Alarm Activated Relay Contact	Normally Open (NO)/ Normally Closed (NC) 62 pin D connector for controller cable to CPS 4200/CPS 4248 controller/power supply

## NETWatch™ Element Management System

NETWatch Interface	RS-485, RJ11C, RS-232C connectors
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## Power Requirements

Back-up Input Voltage	+24 VDC
Consumption	1 Watt (platform only)

## Electrical

Backplane Current Capacity	11 Amps max.
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## Environmental

Operating Temperature Range	0° to +50° C / +32° to +122° F
Storage Temperature Range	-40° to +70° C / -40° to +158° F
Relative Humidity	Maximum 85% non-condensing

## Physical

Dimensions	19" W x 5.25" H x 13" D / 48.3 cm W x 13.3 cm H x 33.02 cm D
Weight (without modules)	17.25 lbs. / 7.84 kg
Mounting	19" EIA rack, 3 RU spaces

## Standard Accessory

HCC 4000	Controller cable to interconnect HLP 4200 platform with CPS 4200/CPS 4248 controller/ power supply
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## Optional Accessories

HLC 4000	Decorative blank module panel cover plate
HPK 4000	Decorative panel kit with two side panels, top panel and mounting hardware
HMC 4000	Module carrier for half-width modules

