



LaserPlus: Chassis (LP-CH-16)

1 GHz HIGH DENSITY COMPACT CATV OPTICAL TRANSMISSION SYSTEM

Features / Benefits

The LaserPlus Model LP-CH-16 Chassis fits into a 19-inch EIA rack, and holds up to 15 interchangeable, hot-swappable, plug-in application modules. Each chassis requires one power supply & accepts a 2nd for hot redundant backup, & has provisions for both local monitoring & remote SNMP element management.

The chassis is very compact, occupying only 5.25" (3 RU) of rack space. Universal slots accept almost any "mix-and-match" combination of *Olson Technology, Inc. LaserPlus Model LP-x* transmitter, receiver, EDFA, block downconverter, passive optical coupler or WDM application modules, to accommodate a limitless variety of service delivery architectures and provide flexibility and scalability in headend/hub design and zone arrangements.



It also includes an integrated internal fiber management tray. The connecting optical fiber(s) can enter the chassis from the front, or from fiber routing apertures located on either (or both) sides of the chassis. Once the fiber connection is made, the fiber cable can be secured in an integrated fiber management tray, located above the application modules. Drop slots are conveniently placed along the tray to assure minimum fiber clutter in front of the modules. The application modules slide into the chassis from the front of the rack, and all RF coaxial cables are connected at the rear.

A single AC or DC power supply module plugged into the primary power supply slot# 16 is sufficient to power a fully-loaded *LaserPlus* chassis; two power supplies (in slots# 15 & 16) may be used to provide hot-redundant backup. For maximum failsafe protection, an AC module can be used in combination with a DC module to provide simultaneous AC and DC powering to the *LaserPlus* chassis.

Optimized design assures a "worst-case" fully-loaded chassis power requirement of less than 150 Watts, ensuring thermal efficiency, low operating costs and long-term reliability. Additionally, the unit is cooled by four (4) high reliability fans mounted on a plenum located on the rear of the chassis, for enhanced air circulation, increased heat dissipation and significantly better reliability than module-based fans. The fans are easily accessible for hot-swappable user-replacement, should that ever be required. No additional spacing is required between chassis units, permitting even more efficient use of precious headend or hub rack space.

In addition to front panel LEDs on the various applications and power supply modules for local status (power, laser, cooling, major/minor alarm, etc.), the *LaserPlus* chassis is also provisioned with a rear-mounted DB-25 connector which outputs individual application module summary alarms via contact closures for local status monitoring or for porting into another monitoring and control system of the system operator's choosing. An optional remote monitoring agent and MIB file which supports third-party SNMP element management solutions via an RJ-45 Ethernet port is also available.

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1GHz HIGH DENSITY, COMPACT CATV OPTICAL TRANSMISSION PLATFORM

Quality / Engineering / Innovation

Specifications



ELECTRICAL, ENVIRONMENTAL & MECHANICAL PARAMETERS:

<i>Dimensions</i>	5.25" H x 19" W x 14.5" D (13.3 cm x 48.3 cm x 36.8 cm)
<i>Weight (Empty)</i>	10 lb (4.54 kg)
<i>Operating Temperature Range</i>	0°C to +50°C (+32°F to +122°F) (Air temperature measured at air inlet of Model LP-CH-16 chassis)
<i>Humidity Range</i>	to 95% non-condensing [Recommended for use only in non-condensing environments]
<i>Cooling</i>	Four fans plenum-mounted; user-replaceable (PN# 037-000405)
<i>Module Slots</i>	1-14=application modules; 15=apps or PS; 16=power supply
<i>Powering</i>	5.25V _{DC} per module; 90-264 V _{AC} or -48V _{DC} ; < 150 Watts [Requires use of 1 or 2 Model LP-PS-x power supply module(s)]

CHASSIS INTERFACES:

<i>Local Status Alarms</i>	<i>Connector:</i> DB-25 <i>Electrical Interface: Relay Contact Closure:</i> 100mA @ 25V _{DC} [Provides ground closures on alarm: PINS 1-15 = SLOTS 1-15; PIN 17 = Cooling; PIN 24 = Summary; PIN 25 = GND]
<i>SNMP Agent (Optional) Connector:</i>	<i>RJ-45</i> <i>Electrical Interface: 10BaseT Ethernet</i> [Requires Model LP-CH-SNMP-1 element management agent]

All specifications are subject to change without notice