

ELECTROLINE



ELink

Optical Transmission Platform

Description

The ELink is a high performance broadband optical headend platform that consists of a series of modules with hot-swap capability. It features a compact structure, high density modular design, high reliability and high performance-price ratio. This provides network operators a simple, fast and flexible way to setup and update the system to meet emerging broadband network requirements.

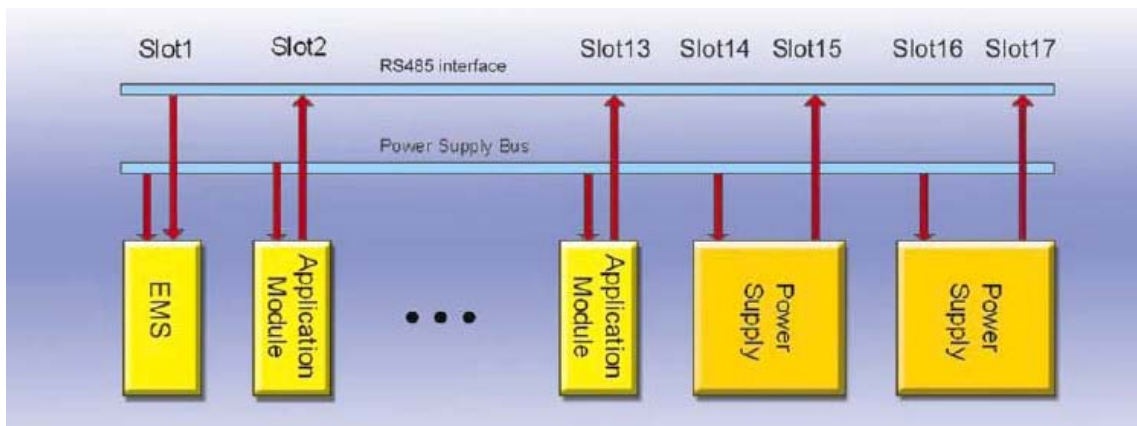
The ELink platform is housed in a standard 19-inch chassis and is 3 rack units high, with 17 slots for active modules. It can accommodate one power supply and up to 15 application modules or 2 power supplies (with power sharing capability) and up to 13 application modules. ELink series modules includes forward transmitter and receiver modules, return receiver module (standard or RFoG), optical amplifier and a network management module.



Key Features








- High density modular design
- Up to 16 modules per chassis
- Hot-swap design for all modules
- Redundant power supply option
- Low power consumption
- Superior heat dissipation and air circulation
- Advanced SNMP network management over Ethernet.
- User-friendly alarm setup

Block Diagram



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Chassis and Plug-in Module Options

 <p>EL-CH Chassis</p>	<p>The EL-CH is a standard 19-inch width chassis. The chassis is 3 rack units high and has 17 slots to accommodate all modules. A back plane interface can provide inter-module communication and power distribution.</p>
 <p>EL-FRX Module</p>	<p>The EL-FRX Forward Path Receiver accepts two optical inputs for redundancy with a wavelength between 1200 and 1600nm and an optical power input range of -3 to +3dBm. The RF output has a pass-band from 54 to 1003MHz and can be attenuated between -20 and 0dB using the front panel controls.</p>
 <p>EL-FTX Module</p>	<p>The EL-FTX series is a high performance 1310nm DFB laser transmitter module and is ideal for broadcast and narrowcast applications. The modules can provide a wide range of optical output power to deliver both analog and digital signals. High performance, advanced pre-distortion circuitry achieves superior CSO and CTB. All configuration parameters can be monitored by LEDs on the front panel, or by the EL-EMS management module. The EL-FTX module can be operate in AGC or MGC modes. These modes can be set up on the front panel.</p>
 <p>EL-RRX Module</p>	<p>The EL-RRX is a CATV Return Path Receiver Module with four optical inputs. The module uses a low noise PIN diodes and a high output level RF amplifiers. The module features four independent RF output ports that are located on the rear panel and provides up to 45dBmV output level. Monitoring and configuration setting of the receiver module are all achieved via the front panel and EL-EMS equipment management module it is available in STANDARD or RFoG version.</p>
 <p>EL-EMS Module</p>	<p>The EL-EMS management module is mounted in the first slot of the ELink Optical Platform to provide local monitoring and configuration, as well as remote management. The EL-EMS module is able to communicate with the rest of the modules via the chassis internal bus. There is a USB port for local craft access and an RJ45 Ethernet port for remote access by network management facilities. A Network Management Console Program (NMCP) is available for monitoring and configuration and provides a graphical user interface (GUI). The EL-EMS integrates the SNMP protocol and the SCTE-HMS-MIBs for remote access via a standard SNMP agent.</p>
 <p>EL-FA Module</p>	<p>The EL-FA series of fiber amplifier module provides optical signal amplification for high performance networks providing voice, video and data services. It contains a high reliability single or double pump laser, has a low noise figure and is available with output options ranging from 14 to 23 dBm. An embedded master control unit (MCU) monitors status of critical components, measures values of key parameters, controls certain function within the unit and report this information via front panel display and over an SNMP network interface.</p>
 <p>EL-PS Module</p>	<p>The EL-PS power supply module is designed to provide stable powering for all modules in the chassis. Two EL-PS modules can be used in one Elink platform for redundancy with built-in power sharing circuitry. The auto-recovery short circuit protection function maximizes the reliability of the platform. On the front panel, the LEDs indicate module status and DC voltage output status. EL-PS also provides 24 VDC test point for testing output voltage</p>

Notes: Detailed module specifications are available on request by contacting your Electroline representative. Specifications are subject to change without notice.

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