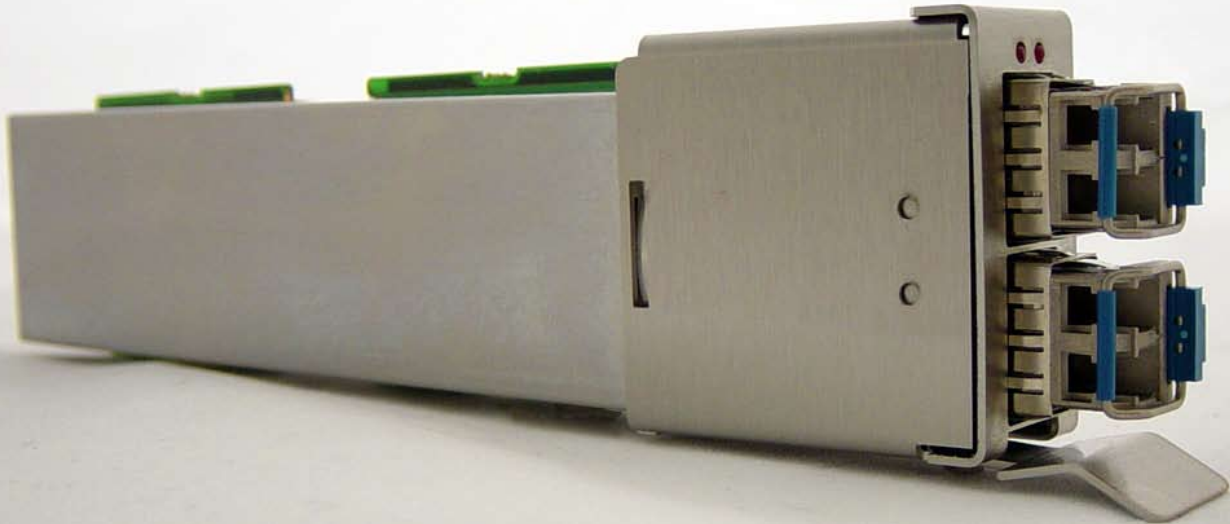


STM-1/OC-3 INTERFACE MODULE



HIGH SPEED DATA TRANSPORT

The STM-1/OC-3 Interface Module (IM) provides a resilient solution to high bandwidth data transport in mission critical network applications. When two STM-1/OC-3 IMs are inserted in the HPX-1600-SS multi-service provisioning platform, the STM-1/OC-3 IM enables transmission of 63/84 E1/T1 circuits over optical fiber at a speed of 155 Mbps. The STM-1/OC-3 IM is equipped with dual LC connectors, each fitted with a hot swappable, optical fiber transceiver Small Form Pluggable Module (SFP). This modular, maintenance friendly design prevents time consuming IM replacements and repairs in failure situations.

Built for mission critical network applications, the STM-1/OC-3 IM is equipped with unassailable protection features including Automatic Protection Switching (APS) and 1+1 protection. Two LEDs on the front panel of the IM alert technicians to Loss of Signal (LOS) and Carrier detected.

Graphical EMS/NMS, HPXView provides comprehensive monitoring, event detection and problem isolation, helping to secure continuous network availability. Text based periodic performance and alarm reporting through Daemon Syslog provides timely and relevant status and event information crucial for the reliable transport of mission critical data.

Used by carriers and utilities across the globe, the STM-1/OC-3 IM features Automatic Laser Shutdown (ALS), conforming to 'Class One' safety requirements.

- 63/84 E1/T1 at 155 Mbps
- Dual LC connectors
- Hot swappable SFPs
- Automatic Protection Switching
- 1+1 protection
- Graphical EMS/NMS

***HPX-1600 Modularity***

*Support for more than*

*20 different Interface Modules*

*The world's broadest service mix from a*

*1RU consolidated platform*

*Low and High Speed Triple Play*

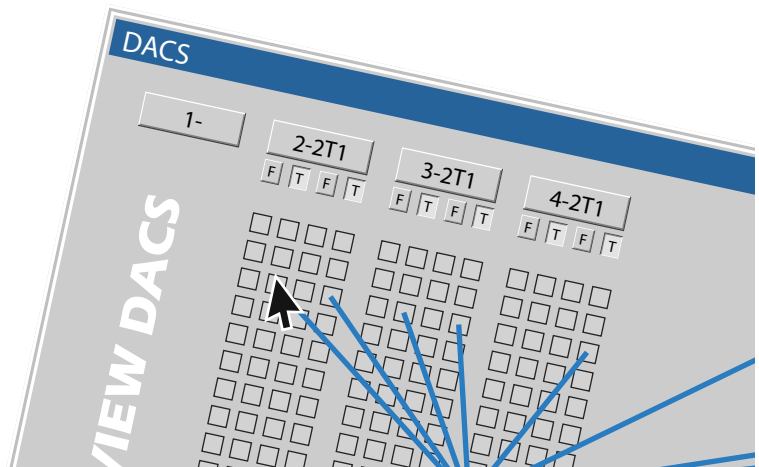
*Over Copper, Fiber, Wireless*

SIMPLE MANAGEMENT

*Configure Circuits in Seconds*

Haliplex platforms are centrally managed with Haliplex's own world-class graphical EMS/NMS solution, HPXView. This industry leading software empowers operators to realize the full potential of their services with the economy of remote management and diagnostics. Windows-driven and ready for integration with concurrent SNMP software, including SNMPc and HPOpenView, this management solution can be implemented in any new or existing network.

HPXView also includes Haliplex's revolutionary Digital Access Cross-Connect Switch (DACs) – a time-saving drag-and-drop answer to bandwidth optimization. The DACs is used to groom voice interfaces and serial data for simplex (one-way) or duplex (two-way) cross connects in multiples of DS0 (nx64kbps) into composite E1 or T1 trunks for local termination or transport over a high speed optic trunk.



- Direct Management via USB, Ethernet, Serial Console port
- Remote IP based management; PPP over SONET/SDH DCC
- SNMP configuration and alarm reporting
- Periodic performance and alarm reporting with Syslog
- Digital Access Cross Connect Switch (DACs)
- Line and Backplane BER testing

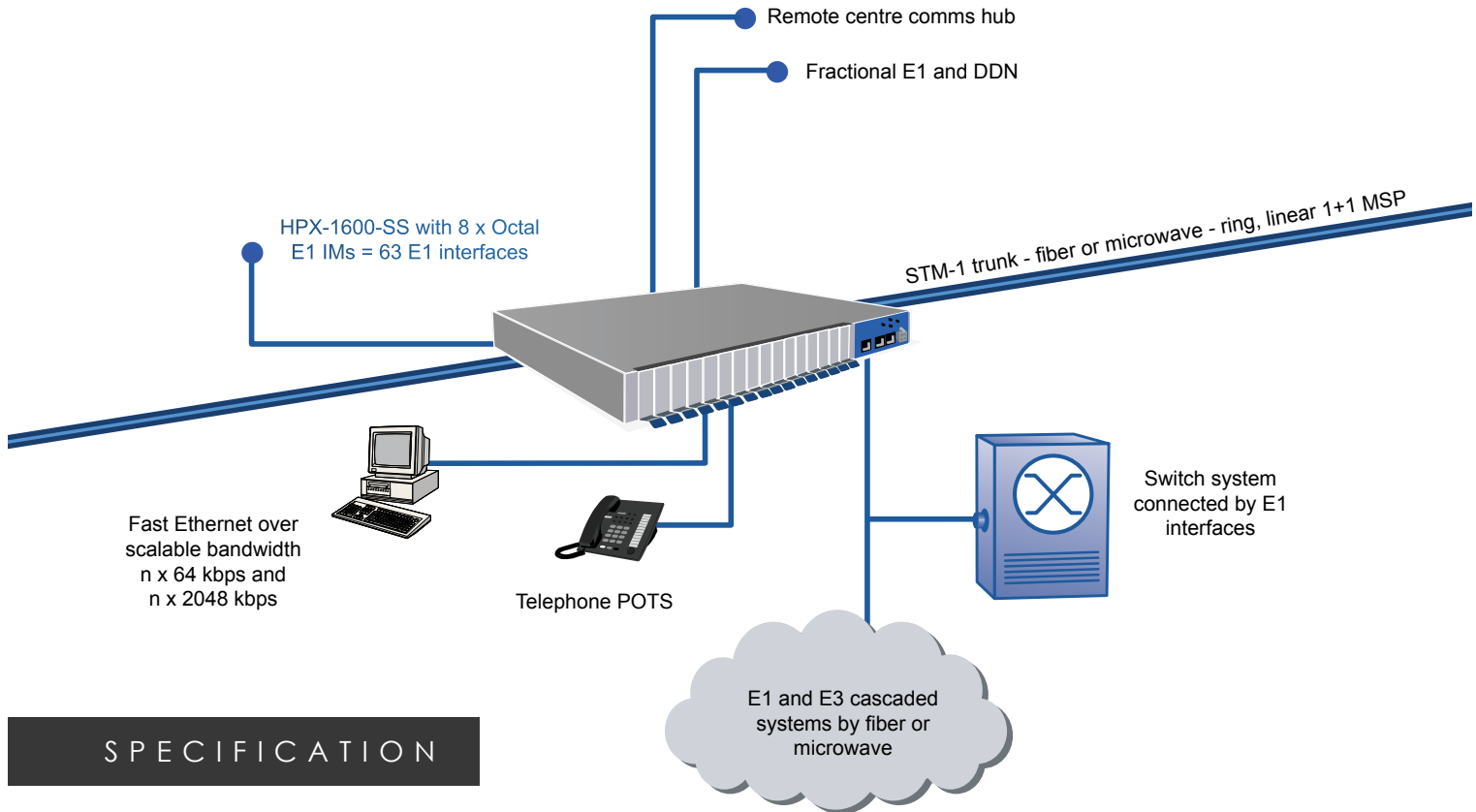
With HPXView, Interface Modules can be configured remotely in a matter of minutes, eradicating costly truck rolls and greatly reducing the need for regional technical staff. HPXView places the power of network management in the hands of even the uninitiated user - with graphical interfacing and **drag-&-drop functionality**, configuration is just a mouse click away.

HPX 1600 SERIES

The HPX-1600 delivers voice, video and data services via a broad range of low and high speed hot-swappable Interface Modules. Each HPX-1600 chassis can be loaded with up to 16 modules in numerous configurations. This modular, mix-&-match design means operators can provision for today's requirements, and position the network for scalable, pay-as-you-grow expansion. Streamlined for optimal port density, these standards compliant modules can be shared and interchanged across platforms, and are implemented instantly with graphical user interface, HPXView. Implementing new services causes no disruption to uptime, or to power distribution through the chassis. In addition to fiber optic 1+1, SNCP and UPSR mechanisms, protection is available for PDH circuits at E1/T1 and E3/DS3 level.

## STM-1/OC-3 INTERFACE MODULE

## STM-1/OC-3 APPLICATION



## SPECIFICATION

Connector	Duplex LC connector
Trunk speed	155 Mbps
Mode	Single mode, multimode
Wavelength	1310 nm, 1550 nm
Topology	Ring, linear, star
Capacity	One TX and RX pair per module
TX Power	0 to -5 dBm
Protection	SNCP/UPSR; 1+1 (MSP) Unidirectional and Bidirectional
Power consumption	< 3 WATTS
Alarms	Los of signal (LOS)
Indicator LEDs	LOS and Carrier detected
Standards	ITU-T: G.957, G.958, G.783; ANSI T1.105; Jitter Transfer Type B/S9.3.2/G.958; Jitter Tolerance Fig 9-3 and Table 9-2/G.958 or better; Laser Safety Class 1 Laser Product (IEC-825)
Compliances	CE, A Tick, C Tick, FCC part 15 class B, UL
Physical	Height: 4.2 cm, Width: 2cm, Depth: 16cm, Weight: <150 grams
Configuration	HPXView
Configuration rules	Supported by HPX-1600-SS
Part Number	HPX-IM-1690