

*Dual Ethernet interface modules for the
HPX-1600 -SS modular multi-service provisioning platform*



LAN BRIDGING SOLUTION

The Dual Ethernet Interface Module (IM) enables operators to bridge Local Area Networks (LANs) or to extend a LAN over a Wide Area Network (WAN). For use with the Ethermapper fitted, HPX-1600-SS, this dual channel 10/100 Mbps device provides a compact solution to realtime data sharing in utility networks with multiple office and substation sites.

Breaking away from command line convention, The Dual Ethernet IM's interface parameters are all managed through Haliplex's own graphical EMS/NMS HPXView, drastically reducing the need for dedicated technical staff. Further time savings are achieved by the The Dual Ethernet IM's ability to auto detect locally connected LAN devices. Commonly deployed in pairs, the Dual Ethernet IM can be used with one of the pair operating at 100Mbps and the other at 10Mbps.

Designed specifically for mission critical infrastructures, the Dual Ethernet IM is equipped with comprehensive alarm and diagnostic capabilities. Alarms include Loss of Link and front panel LED indicators alert technicians to changes in link status, and Ethernet activity.

- 10/100 Mbps
- LAN Bridging
- Extension of LAN over WAN
- Graphical EMS/NMS HPXView
- Comprehensive alarms
- Auto detects LAN devices

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

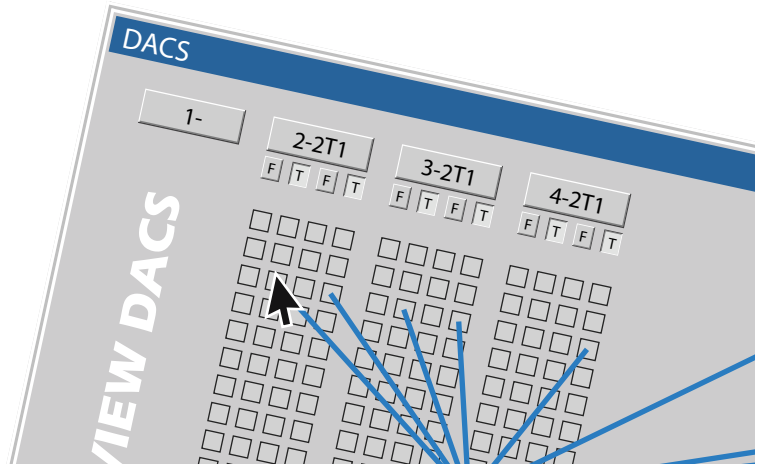
Over Copper, Fiber, Wireless

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

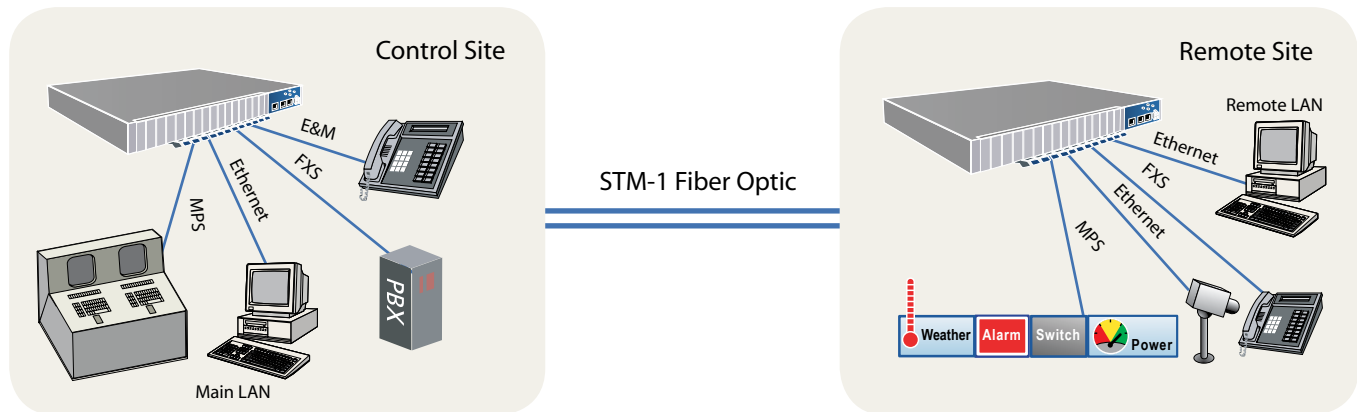
With HPXView, Interface Modules can be configured remotely in a matter of minutes, eradicating costly truck rolls and greatly reducing the need for regional technical staff. HPXView places the power of network management in the hands of even the uninitiated user - with graphical interfacing and **drag-&-drop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

DUAL ETHERNET INTERFACE MODULE

BRIDGING APPLICATION



SPECIFICATION

Connector	Dual RJ45 connectors
Trunk speed	$n \times T1, E1, E3$ or DS3, where $n = 1, \dots, 63$
Link speed	10/100 Mbps (half or full duplex and auto negotiation)
WAN protocol	Complies with ITU-T X.86(LAPS), PPP and ITU G.7041GFP
Power consumption	< 3W
Alarms	Loss of Link
Indicator LEDs	Link status and Tx/Rx
Standards	IEEE802.3
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 with Ethermapper
Part number	HPX-IM-1672