

*Dual FXS interface modules for the HPX-1600-IA  
and HPX-1600-SS multi-service provisioning platforms*



HOTLINE APPLICATION

The Dual FXS Interface Module (IM) provides cost-efficient, resilient voice communications in private network applications. Operating at a trunk speed of 64 kbps, this IM achieves connection via two RJ45 FXS ports. The Dual FXS IM can be paired with either digital E1 or analog FXO to extend voice communications between sites.

To ensure continuous availability the Dual FXS IM is equipped with comprehensive alarm capabilities, managed through graphical EMS/NMS software, HPXView. Both FXS ports feature two LEDs; the top LED displays *Ring*ing and *Off Hook* status, the bottom LED displays *Alarm On* and *Alarm Off*.

Comprehensive diagnostics and reporting via Syslog and crisis averting alarm capabilities are managed through HPXView. Flexible BER testing options include LIU analog line loopback and IM connector loopback.

- Hotline application
- FXS to E1, FXS to FXO
- Comprehensive diagnostics
- Remote management with HPXView
- 64 kbps trunk speed

***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***

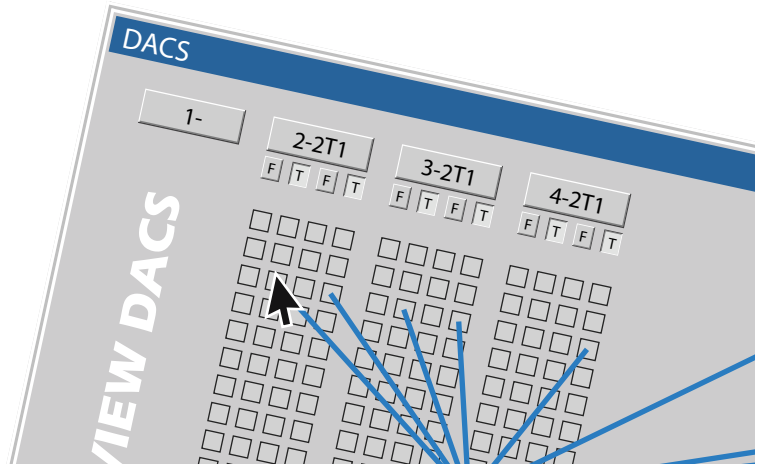
***Over Copper, Fiber, Wireless***

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.



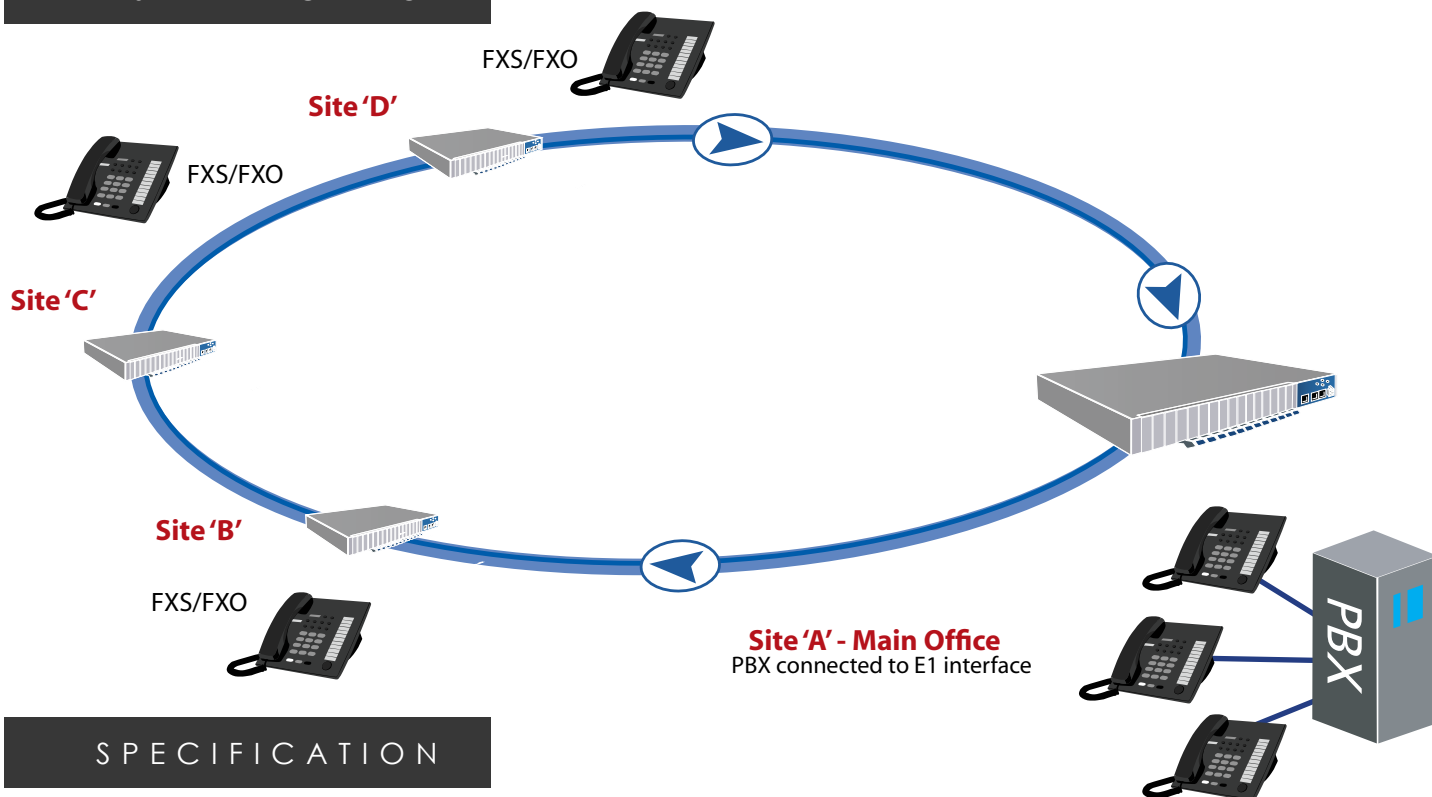
- Direct Management via USB, Ethernet, Serial Console port
- Remote IP based management; PPP over SONET/SDH DCC
- SNMP configuration and alarm reporting
- Periodic performance and alarm reporting with Syslog
- Digital Access Cross Connect Switch (DACs)
- Line and Backplane BER testing

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.

## FXS APPLICATION



## SPECIFICATION

Connector	Dual RJ45 connector
Bit Rate	64 kbps
Interface	2-wire loopstart
Signalling type	CAS, R2, PLAR (Private Line Auto Ringdown)
Companding	A-Law, $\mu$ -L aw,
Level adjustment	-30dB to + 6dB
Maximum levels	Rx: +4dBm Tx: +4dBm
Loopbacks	Bi directional, line and equipment
Power consumption	<3 Watts
Alarms	Line Fault
Indicator LEDs	Show phone hook status, ringing and line fault alarms
Standards	ITU-T G.711, G.712, Q.421; AS/ACIF S003- 2001
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, DACS, SNMP
Configuration rules	Supported by HPX-1600-IA, HPX-1600-SS
Part Number	HPX-IM-1621