

*Dual port FXO interface modules for the HPX-1600-LA
and HPX-1600-SS multi-service provisioning platforms*

**COST EFFECTIVE VOICE**

The Dual FXO Interface Module (IM) offers Carrier-free, continuously available voice connection, at an industry leading price point. For use with the HPX-1600 multiplexer series, the Dual FXO IM provides direct connection to analog PSTN lines from a central office or PABX, emulating the operation of a telephone handset. Operating at 64 kbps, the Dual FXO IM achieves connection via dual RJ45s and provides a 2-wire, voice-grade interface serving as a loop termination for central office line current and ringing voltage.

Comprehensive diagnostics and reporting via Syslog, and crisis averting alarm capabilities are managed through graphical EMS/NMS software, HPXView. This innovative software allows remote analysis of alarm status including alert to: hardware fault, line drop-out, AIS detection, and an off-hook current exceeding alarm. Both ports of the front panel of the Dual FXO IM feature two LEDs; the top LED displays *Ringing* and *Off Hook* status, the bottom LED displays *Alarm On* and *Alarm Off*.

- Emergency phone lines
- Mission critical network applications
- voice-grade interface
- Carrier free voice lines
- Comprehensive alarms
- GUI configurable

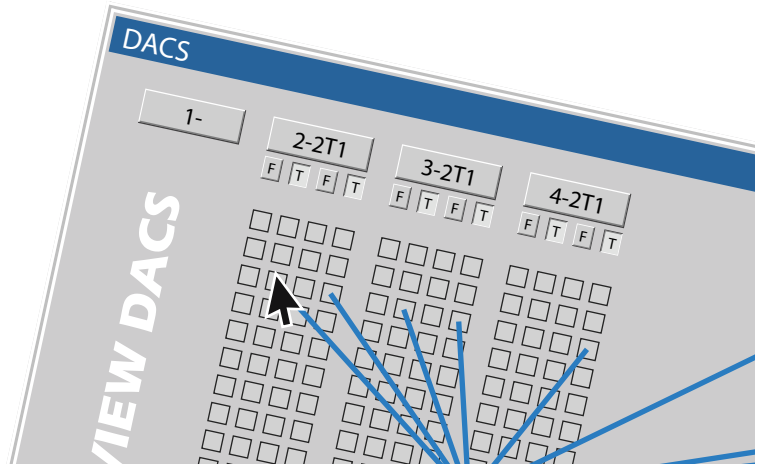
HPX-1600 Modularity
*Support for more than
20 different Interface Modules*
*The world's broadest service mix from a
1RU consolidated platform*
Low and High Speed Triple Play
Over Copper, Fiber, Wireless

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

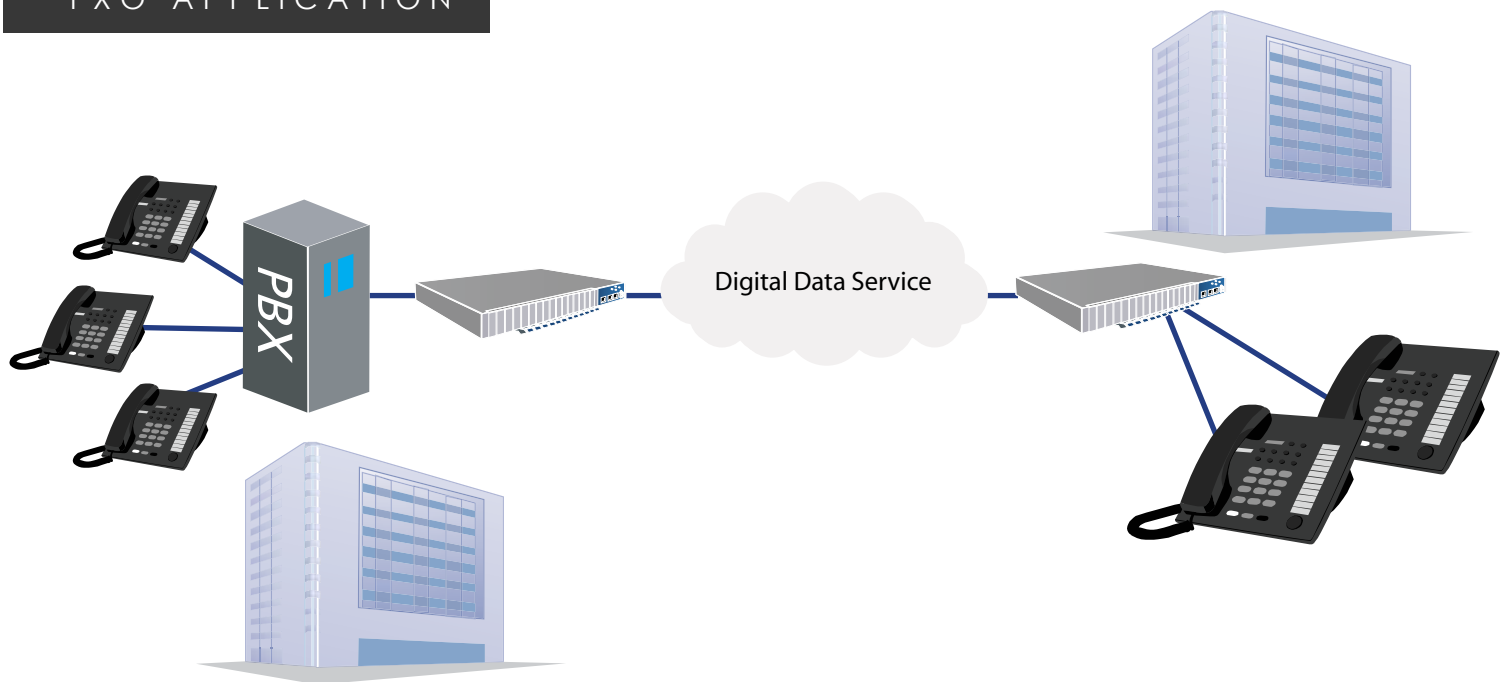
With HPXView, Interface Modules can be configured remotely in a matter of minutes, eradicating costly truck rolls and greatly reducing the need for regional technical staff. HPXView places the power of network management in the hands of even the uninitiated user - with graphical interfacing and **drag-&-drop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

FXO APPLICATION



SPECIFICATION

Connector	Dual RJ45 (Compatible with RJ-11)
Bit Rate	64 kbps
Interface	2-wire loopstart
Signalling type	CAS, R2 (Q.421)
Companding	A-Law, μ -Law
Level adjustment	-15dB to +12dB (nominally 0)
Maximum levels	Rx: 3dBm Tx: 3dBm
Loopbacks	Line, equipment or both
Power consumption	<3 Watts
Alarms	Hardware Fault, Line Drop Out, AIS
Indicator LEDs	Line Hook Status, Ringing Detection and IM Fault Alarms
Standards	ITU-T G.711, G.712, Q.421; AS/ACIF S003-2001; FCC; TBR21 and JATE
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-1623