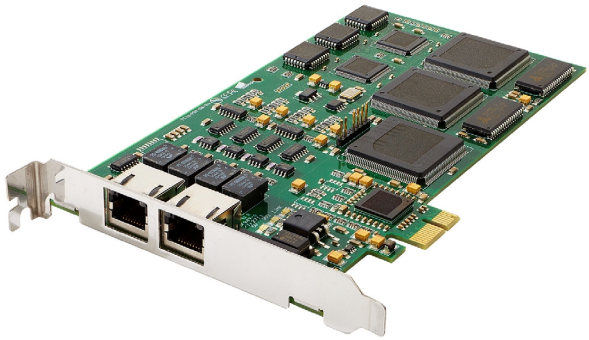
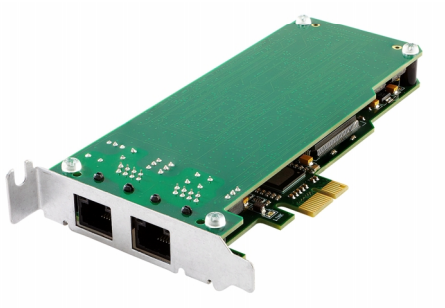
HyperXpress series PCIe Voice Recording Boards





The OptiLogix HyperXpress OEM Voice Recording boards provide powerful features for building advanced Call Recorders.

Each card occupies a single PCI Express slot and combines a compact form factor with very low power consumption resulting in unmatched reliability.

On-board DSPs and large streaming buffers impose very little demand on system and application resources.

D-channel signalling supports Call Setup, Connect, Clear, DDI number and CLI number decoding.

Supports all major ISDN variants, QSIG, DASS-2 and DPNSS.

Simultaneous recording on all channels of both upstream and downstream sides of a conversation or as an option (some product models only) recording the audio streams seperately.

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Features and Benefits

High density half length and standard or low profile PCI Express cards

Non intrusive and virtually undetectable high impedance passive monitoring

Dialled number and Caller ID signalling support

Models available for PRI-ISDN, BRI-ISDN / S_o bus, Digital handsets and Analog handset / trunk lines

Digital Signal Processors for voice streaming and on-board D-channel protocol processing

4, 8 and 16 channel Analog, Digital handset and S_o bus models

Fractional, 30 and 60 channel PRI-ISDN / E1 models

23 channel and 46 channel T1-ISDN models

Protocol support for all major ISDN variants, QSIG, DASS-2 and DPNSS

Analog models support DTMF, FSK Caller ID, AGC and audio detection

Digital models support all major PBX with highly accurate DigitalVox start/stop triggering

Uses the OptiLogix generic DLL based API and certified Windows device driver. Fully supported by HyperEngine

Supports Server 2003 up to **Server 2025**, Windows 7, Windows 10 and **Windows 11**

CE, UKCA, FCC and RoHS 3 compliance

Technical Specifications

Mechanical characteristics:	Half-length standard or low-profile PCI Express card
Operating temperature:	0 °C to +60°C
Humidity:	5% to 80% non-condensing
Maximum power requirements:	+3,3Vdc (300 mA), +12Vdc (150 mA)
Operating systems:	All 32-bit and 64-bit Windows Operating Systems including **Windows 11** and **Server 2025**
Boards per system:	Mix of 8 boards or 480 ports total

Interface Specifications

Primary Rate interface:	E1 (2.048Mbit/s), T1 (1.544Mbit/s)
AC impedance:	1100 Ω
Maximum tap length:	10 m (unterminated), 100 m (terminated)
Protocols:	All major ISDN variants, QSIG, DASS-2 and DPNSS
Basic Rate interface:	4 wire S_o bus
AC impedance:	Line Matched
Maximum tap length:	500 m
Protocols:	Euro-ISDN
Digital handset interface:	2 wire bus
AC impedance:	Line Matched
Maximum tap length:	Typical 500 m (PBX model and cable quality dependent)
Protocols:	All major PBX supported (DigitalVox triggering)
Analog handset / trunk interface:	2 wire voltage start or line level audio triggering (Vox)
DC/AC impedance:	Infinite / 3000 Ω
Total Harmonic Distortion (THD)	-36 dB (1.6%)
Signal to Noise Ratio (SNR)	-48 dB
Signal crosstalk	-78 dB
Maximum tap length:	5000 m
Signalling:	Ring detection, voltage detection, DTMF detection for dialled numbers, FSK Caller ID detection, voice activity detection

Audio Processing

Voice and Silence detection:	Programmable from OptiLogix API
Upstream and downstream audio gain:	Programmable from OptiLogix API
Frequency response:	300 - 3400Hz
Speech encoding/compression:	64kbit/s A-law (G.711)

Safety and EMI Certifications

Safety, emissions, immunity, EMC:	EN-62368-1, EN-61558-1/-2-16, EN-55032, EN-55035, EN-61000-3-2 (NEN- for CE, BS for UKCA)
Compliance:	CE, UKCA, FCC and RoHS 3
Estimated MTBF:	600.000 hours
Warranty:	2 years

The OptiLogix policy is one of continuous development and consequently the equipment may vary in detail from the description and specification in this publication

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