

HyperUSB series Voice Recording Devices



The OptiLogix HyperUSB OEM Voice Recording devices provide powerful features for building small to medium channel count (portable) Call Recorders.

Each model features a USB 2.0 compatible high throughput interface 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.

The OptiLogix HyperUSB OEM Voice Recording devices provide powerful features for building small to medium channel count (portable) Call Recorders.

Simultaneous recording on all channels of both upstream and downstream sides of a conversation.

Features and Benefits

USB 2.0 interface, USB powered

Non intrusive and undetectable high impedance passive monitoring

Dialled number and Caller ID signalling support

Models available for PRI-ISDN, BRI-ISDN / S₀ bus, Digital handsets and Analog handset / trunk lines

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

4 and 8 channel Analog, Digital handset and S₀ bus models

Fractional / 30 channel PRI-ISDN and fractional / 23 channel T1-ISDN models

Protocol support for all major ISDN variants, Q.SIG, 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 API and driver. Fully supported by HyperEngine

Supports Win-2000, Win-XP, Vista, Server 2003, 2008, 2012, 2016, Windows 7, 8 and 10

Supports 64kbit/s A-law and high quality compressed 36kbit/s speech encoding

CE, FCC and RoHS 3 compliance

Technical Specifications

Mechanical characteristics:	Compact USB powered device
Operating temperature:	0 °C to +50°C
Humidity:	5% to 80% non-condensing
Maximum power requirements:	+5Vdc (250 mA) from USB port
Operating systems:	All 32-bit and 64-bit Windows Operating Systems
Boards per system:	Mix of 2 devices, 30 ports in 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, Q.SIG, DASS-2 and DPNSS
Basic Rate interface:	4 wire S ₀ 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:	500 m
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
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 (all compression modes)
Speech encoding/compression:	64kbit/s A-law (G.711), 36kbit/s proprietary encoding

Safety and EMI Certifications

Safety, emissions, immunity:	EN 60950, EN 55022, EN 55024
Compliance:	CE, FCC and RoHS 3
Estimated MTBF:	400.000 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