

HyperUSB series Voice Recording Devices



All major telecom protocols and PBX interfaces supported !

The OptiLogix **HyperUSB** OEM Voice Recording devices provide powerful features for building small to medium channel count portable Digital Voice 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.

Supports all major ISDN variants, Q.SIG, DASS-2, DPNSS and all major PBX Digital handset D-channel protocols.

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



Features and Benefits

USB 2.0 interface, mains and USB powered versions

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

1, 2, 4 and 8 channel Analog, Digital handset and S₀ bus models

Fractional and 30 channel PRI-ISDN / E1 models

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

Digital models support all major D-channel signalling protocols and highly accurate DigitalVox start/stop triggering for non-protocol applications

Based on the OptiLogix V32 DSP architecture for unmatched performance and reliability

Uses the OptiLogix generic API and driver. Supports Win-NT, Win-2000, Win-XP, Win-2003 and Vista

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

CE, FCC and RoHS compliance

Device model examples

8 channel Analog: HU-HS-08
8 channel Digital / S₀: HU-DX-08
30 channel PRI / E1: HU-PRI-30

Technical Specifications

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|-----------------------------|---|
| Mechanical characteristics: | Mains or USB powered device |
| Operating temperature: | 0 °C to +50 °C |
| Humidity: | 5% to 80% non-condensing |
| Maximum power requirements: | Mains adaptor: +12Vdc (500 mA) USB powered: +5Vdc (250 mA) |
| Operating systems: | Win-NT, Win-2000, Win-XP, Win-2003 and Vista |
| Devices per system: | Mix of 4 devices, 60 ports total |

Interface Specifications

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|-----------------------------------|--|
| Primary Rate interface: | E1 (2.048Mbit/s) |
| AC impedance: | 1100 Ω |
| Maximum tap length: | 10 m (unterminated), 100 m (terminated) |
| Protocols: | All major ISDN variants, Q.SIG, DASS-2, 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 D-channel signalling, DigitalVox triggering |
| Analog handset / trunk interface: | 2 wire voltage/loop start or line level audio |
| DC/AC impedance: | Infinite / 3000 Ω |
| Maximum tap length: | 5000 m |
| Signalling: | Ring detection, loop current or voltage detection, DTMF detection for dialled numbers, FSK Caller ID detection, voice activity detection |

Audio Processing

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|-------------------------------------|---|
| 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

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|------------------------------|------------------------------|
| Safety, emissions, immunity: | EN 60950, EN 55022, EN 55024 |
| Estimated MTBF: | 400.000 hours |
| Warranty: | 3 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