

HyperPacket series Voice Packetizers



The OptiLogix HyperPacket OEM Voice Packetizers provide powerful features for building advanced Call Recorders.

Each unit combines a compact form factor with very low power consumption resulting in unmatched reliability.

Embedded DSPs for D-channel decoding, voice processing and IP packet streaming.

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

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

Highly secure encrypted IP streaming of the mixed upstream and downstream sides of a conversation (optionally separate audio streaming for stereo recording).

Generic IP stream format (the OptiLogix HyperStream open format) firmware's available for using HyperPacket devices with your own Windows or Linux VoIP recording software.



Features and Benefits

Compact aluminium box with telecoms interfaces and 10/100 Mbit/s Ethernet port

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

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 Server 2003, 2008, 2012, Server 2016, Windows 7, Windows 8 and Windows 10

Remote TCP/IP accessibility for system configuration, FLASH memory upgrading and channel capacity license upgrading

Fully stand-alone embedded operation

Supports 64kbit/s A-law and high quality compressed 36kbit/s speech encoding for reduced IP bandwidth

Highly secure encrypted IP streaming

Custom IP output formats possible for supporting existing IP Recording systems

CE, FCC and RoHS 3 compliance

Technical Specifications

Mechanical characteristics:	Compact aluminium box with external power supply adaptor
Operating temperature:	0 °C to +60°C
Humidity:	5% to 80% non-condensing
Maximum power requirements:	+12Vdc (500 mA)
Operating systems:	Operating system independent. API support for Server 2003, Server 2008, Server 2012, Server 2016, Windows 7, 8 and 10

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 via TCP/IP
Upstream and downstream audio gain:	Programmable via TCP/IP
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:	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