HyperArray (Very High Density) Voice Packetizer

The OptiLogix HyperArray is a Very High Density Voice Packetizer for building large scale E1/T1 PRI based TDM Call Recording systems.

Each 3U 19" rackmount model can non-intrusively tap and convert upto 1200 TDM channels (40 E1's or 40 T1's) into IP streaming packets.

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

Rugged design, low power consumption, redundant power supplies and TDM module hot-swapability results in unmatched reliability.

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 seperate 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.

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Features and Benefits

3U height 19" rackmount model with 40 E1 or T1 PRI interfaces (upto 1200 TDM channels)

Non intrusive and undetectable high impedance passive monitoring

Dialled number and Caller ID signalling support

Digital Signal Processor Arrays for voice streaming and protocol processing

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

Uses the OptiLogix generic API and driver. Fully supported by HyperEngine

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

Remote TCP/IP accessibility for system configuration and FLASH memory upgrading

Fully stand-alone embedded operation

Redundant power supplies and full hot-swap facility for the plug-in modules

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:	3U height 19" rack
Operating temperature:	0°C to +60°C
Humidity:	5% to 80% non-condensing
Power requirements (110V version):	100V - 120V AC 50-60Hz
Power requirements (220V version):	200V - 240V AC 50-60Hz
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
B-channel audio coding and SNR:	G.711 (A-law or µ-law), 39dB Signal to Noise Ratio (SNR)

Audio Processing

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