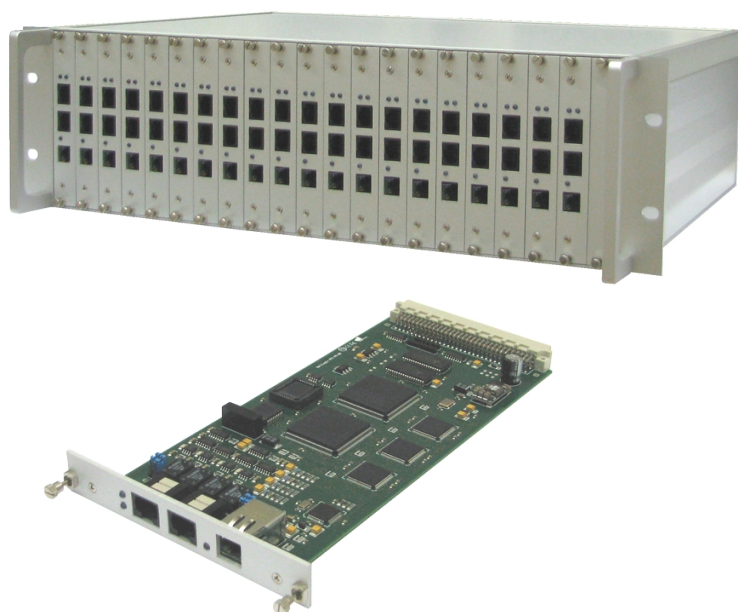


## HyperArray (Very High Density) Voice Packetizer



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

Each 3U and 7U height 19" rackmount model can convert upto 1200 and 2400 TDM channels (40 and 80 E1'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-swap facility 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.



### Features and Benefits

3U and 7U height 19" rackmount models with respectively 40 and 80 PRI / E1 interfaces (1200 and 2400 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. Supports Win-NT, Win-2000, Win-XP, Win-2003 and Vista

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 TDM modules

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

Highly secure encrypted IP streaming

CE, FCC and RoHS compliance

### Product model examples

1200 ch. PRI / E1: IP-PRI-1200

2400 ch. PRI / E1: IP-PRI-2400

## Technical Specifications

Mechanical characteristics:	3U or 7U height 19" rack
Operating temperature:	0 °C to +60 °C
Humidity:	5% to 80% non-condensing
Maximum power requirements:	230V AC
Operating systems:	Operating system independent. API support for Win-NT, Win-2000, Win-XP, Win-2003 and Vista

## Interface Specifications

Primary Rate interface:	E1 (2.048Mbit/s)
AC impedance:	1100 $\Omega$
Maximum tap length:	10 m (unterminated), 100 m (terminated)
Protocols:	All major ISDN variants, Q.SIG, DASS-2 and DPNSS

## 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
Estimated MTBF:	600.000 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