HyperCloud series Voice to Cloud Streamers

The OptiLogix HyperCloud OEM Voice to Cloud Streamers provide powerful features for building advanced cloud based Call Recorders.

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

Fully stand-alone embedded ARM based Linux system with DSP technology for D-channel decoding, voice processing / encoding and IP 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.

Audio file buffering and low bandwidth requirements when streaming / uploading to the cloud using the integrated high quality low bitrate audio encoders.

Features and Benefits

Compact box with telecoms interfaces, 10/100 Mbit/s Ethernet port and LCD display

Non intrusive and undetectable high impedance passive monitoring

Dialled number and Caller ID signalling support

Models available for PRI-ISDN, BRI-ISDN / S_0 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

Web interface for system configuration, firmware uploading and channel capacity license upgrading

Fully stand-alone embedded (Linux) operation with internal RAM and (expandable) SSD storage for audio file buffering

Supports 64kbit/s A-law, 16kbit/s MP3, 13kbit/s GSM and 8kbit/s MP3 high quality audio encoding for reduced IP bandwidth cloud streaming

Optional highly secure encrypted audio files

FTP and Secure FTP for streaming audio files and meta-data to the cloud

CE, FCC and RoHS 3 compliance

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VOICERECORDING TECHNOLOGY

Technical Specifications

Mechanical characteristics:	Compact box with external power supply adaptor
Operating temperature:	0 °C to +50°C
Humidity:	5% to 80% non-condensing
Maximum power requirements:	+12Vdc (1000 mA)
Embedded operating system:	Linux

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_o 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
Upstream and downstream audio gain:	Programmable
Frequency response:	300-3400Hz (all compression modes)
Speech encoding/compression:	64kbit/s A-law, 16kbit/s MP3, 13kbit/s GSM and 8kbit/s MP3

Safety and EMI Certifications

Safety, emissions, immunity:	EN 60950, EN 55022, EN 55024
Compliance:	CE, FCC and RoHS 3
Estimated MTBF:	500.000 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

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