BARIX
by digigram

X/LINK-DUAL
Dual stereo IP Audio Codec

SDHC card reader for backup playlists, and loading/saving the codec configuration

Low consumption, fanless, multi-format encoding and multi-protocol streaming

Easy and fast status monitoring: status LEDs, LCD display and keypad, vu-meters, headphones

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2 analog I/O's and 1 stereo AES/EBU I/O

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2 internal redundant PSUs for secure operation

Switchable hardware by-pass of audio inputs to outputs in case of power supply failure.

4 GPIO's for signalling of physical status

RS232 port for serial data signalling

4 network ports for full separation of IP traffics:
• AES67, RAVENNA, Livewire (LAN)
• Redundant dual streaming (WAN)
• Remote management (LAN / WAN)

BARIX by digigram X/LINK-LE is a professional IP audio codec designed for the highest needs in terms of reliability and redundancy, delivering a stereo or two mono sources. Perfect for STL and SSL, but also DVB audio, web radio, commentary and intercom applications. It can be used in legacy analog or AES/EBU audio infrastructures, as well as in full-IP audio infrastructures (AES67, Ravenna, Livewire standard mode), making it a perfect investment for the migration to in-house IP audio. X/LINK-DUAL is based on Fluid IP technology which offers redundant dual streaming and multiple redundancy for fail save connections. It is based on a powerful, low consumption, high redundant, fanless hardware platform.

Applications
- SSL, STL
- High density multi-channel applications
- Easy integration into existing SNMP based super visors (SET, GET, Traps)
- Designed for audio service continuity and failsafe operation

Features
- Space efficient: two stereo codecs in a 1U rack, with simultaneous delivery to transmitter sites, WEB radio CDNs, DVB multiplexers, and other studios
- Ongoing product support with flexible options
- Easy integration into existing SNMP based supervisors (SET, GET, Traps)
- Adapted to your current legacy audio infrastructure & to your future full-IP audio infrastructure

Technical Specifications

Power Supply
- 2x internal redundant PSUs 100-250VAC, 15W

Network
- 4 networks ports 1x 100 Mbps, 3x Gbps on RJ-45 ports
- 4 balanced analog I/Os & 2 stereo AES/EBU I/Os with hardware sample rate converters
- 4 GPI/4 GPO on Sub-D25 connector
- One RS232 port for serial data tunneling
- Breakout cable for the second pair of audio I/Os
- Possibility to seperate the network traffics (WAN, LAN, management) via the 4 networks ports
- VLANs, QoS (VLAN Tagging, DSCP)
- IGMPv2 and v3 & SNMPv2c

Audio formats
- Each input and output can be analog, AES3, AES67, or RAVENNA or Livewire (standard mode)
- Multi-format encoding and multi-protocol streaming of the audio sources
- Unicast, multi-unicast, multicast, multi-multicast addressing
- PCM linear 16/20/24 bits, ITU G.711/722, ISO MPEG-1/2 Layer II, Layer III, MPEG-4 AAC-LC, AAC-LD, HE-AACv2, HE-AACv1, AAC-ELD, Opus
- Multi-protocol streaming: RTP/UDP with or without MPEG-TS encapsulation (SPTS, MPTS), Icecast / Shoutcast
- Unicast, multi-unicast, multicast, multi-multicast addressing
- Dual port redundant streaming on WAN, with time diversity up to 3 seconds
- Selectable FECs for ACIP streams (from +15% to +100% IP bandwidth)
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- Real-time metrics on network path quality for the primary stream as well as for the FEC/redundant stream
- AES transparent transport
- Optional transcoding (ACIP, HTTP, MPEG-TS)

Input/Output
- 4 network ports for full separation of IP traffics:
- AES67, RAVENNA, Livewire (LAN)
- Redundant dual streaming (WAN)
- Remote management (LAN / WAN)

Audio Management
- Silence detection on the audio inputs and on the received IP audio streams
- Auxiliary data tunneing (serial Data and GPIs, physical or virtual, RDS-UECP
- Insertion f metadata to HTTP strems (static, dynamic)
- Clock synchronisation: internal, PTP, Livewire clock
- Three decoding priorities per output programm, with choice of the audio source on each priority: IP strem (RTP, UDP, HTTP), local files & playlists on SDHC card, audio inputs
- Automatic switching between ecoding priorities according to adjustable criteria
- Configuration and monitoring via intuitive WEB GUI n via SNMP
- Alarm via SNMP Traps
- Hardware by-pass of the first stereo input to first the stereo output (analog and AES/EBU)
- Optional: Audio synchronization of decoders based on NTP, or PTP

User Interface
- Web interface for control, status and configuration
- LEDs for status and VU meter, HW reset button

Environmental

Operating Environment
- 32° to 122°F (0 to +50°C)
- 0 - 95% relative humidity, non-condensing

Storage Conditions
- -23° to 158°F (-5 to +70°C)
- 0 - 95% relative humidity, non-condensing

For commercial related questions (distributors contacts, price list, business opportunities) please contact: **sales@barix.com**

Certifications
FCC, EMC, IEC, EN, RoHS

Ordering Information

2019.7002 BARIX X/LINK-DUAL

For technical inquiries (problem reports, request for documentation, etc.) please contact **support@barix.com**