

OUTSTANDING VERSATILITY IN 1 U

Redefining the 1U rack standard, the IQOYA SERV/LINK is a versatile, high-density codec designed in France to master the complexities of modern IP audio.

From live remote contributions to critical communication infrastructures, it provides the seamless and reliable multi-channel IP audio solution you will trust.



KEY FEATURES

Secured inhouse AoIP network

Perfect hardware isolation between the WAN network and LAN AoIP network (ST2110, Dante)

Audio service continuity

2 hot-swappable power supply units,
2 Gbit Ethernet ports for stream redundancy, audio failovers,
1+1 hot redundancy

Tunneling of auxiliary data

Ingest / egress of auxiliary data (serial data, status) via UDP or optional GPIOs and/or serial ports, for in-band tunneling

Seamless integration

WEB Service API
SNMP v2c & v3
ST2110 context:

- NMOS IS-04 & IS-05
- In-band or out of band control

Resilient audio transmission

Features Fluid-IP, a Digigram technology for unmanaged IP networks: FECs, RIST with multi-link aggregation, dual streaming

Interoperability

EBU/ACIP compliance for interoperability with third party codecs and any SIP infrastructure

PROTOCOLS





ANALOG/AES3

ST 2110-30

NMOS

MAIN APPLICATIONS



Distribution of radio programs

STL, SSL, audio via DVB/IP



Defense & Security

Critical communications
Radio over IP



Remote production

Constant digital connection between a sports event venue and the production studio



Corporate & Institutions

Live conferences/debates streaming to CDNs for remote audience

SPECIFICATIONS



IQOYA SERV/LINK DANTE or AES67 - back panel



IQOYA SERV/LINK 882 - back panel



IQOYA SERV/LINK HW option 16 RS232 and 16/16 GPIO - back panel



IQOYA SERV/LINK 16162 - back panel

VERSIONS AND CONNECTIVITY

	SERV/LINK 88-AES67	SERV/LINK 7272- AES67	SERV/LINK 88-DANTE	SERV/LINK 7272- DANTE	SERV/LINK 88-TC	SERV/LINK 882	SERV/LINK 16162
Audio connectivity	AES67 / RAVENNA / ST2110-30/ST2022-7		DANTE		IP Streams Transcoding	Analog, AES3	
N# of processed mono I/O channels*	8/8 to 64/64	8/8 to 128/128	8/8 up to 64/64	8/8 to 128/128	8/8 to 128/128	8/8	16/16
N# of mono analog I/O channels	-	-	-	-	-	8/8	16/16
N# of AES3 mono I/O channels	-	-	-	-	-	8/8	16/16
Eth ports for WAN AoIP	2 Gbit Eth ports						
4 additional WAN ports	Option	-	Option	-	Option	-	-
Eth ports for LAN AoIP	2 Gbit Eth ports isolated from the WAN Eth ports				-	-	-
XLRS	-	-	-	-	-	via 1 or 2 breakout cables	
GPIOs on Terminal block	Option: 8 or 16				Option: 8	8 or 16	
RS232 ports	Option: 8 or 16				Opt: 8,16 or 32	Option: 8 or 16	

*channel count upgrade via software licences of 8 I/Os

GENERAL

- 1U 19" rackmount
- Depth = 43.9 cm
- 2 redundant 90 - 264VAC hot-swappable power supply units
- Front panel LCD display and keypad
- Internal storage for sound files and playlists
- Configuration and monitoring via intuitive Web GUI, SNMP, and WEB service API

MEDIA FLOW

- **Audio formats**
 - G.711/722
 - PCM 16/20/24 bits
 - ISO MPEG-1/2 Layer II & III
 - MPEG-4 AAC (LC, HEv1, HEv2, LD, ELD)
 - Opus
 - Qualcomm aptX - *option*
 - Multichannel 5.1 (PCM, AAC-LC) and 7.1 (PCM)
- **Streaming protocols**
 - RTP/UDP
 - MPEG-TS encapsulation (SPTS, MPTS) - *optional decoding*
 - Icecast/Shoutcast
 - HLS multi-bitrate encoding
 - RIST (Simple and Main profiles) - *option*
- EBU/ACIP compliance (tech3326 and 3368)
- VLAN tagging, DiffServ QoS (DSCP)
- FECs for ACIP/RTP streams (+10% to +100% IP bandwidth)
- Pro-MPEG CoP #3 FEC for MPEG-TS streams
- Dual-port streaming with spatial and time diversity (up to 3 seconds)
- Unicast, multi-unicast, multicast, multi-multicast addressing (IGMPv2 and v3)

DISTRIBUTION MODE

- Multi-format encoding and multi-protocol streaming
- 3 decoding priorities per output program, with adjustable switching criteria. (audio sources can be: IP streams, files or playlists, or audio inputs).
- Silence detection on the audio inputs and on the received IP audio streams
- In-band tunneling of serial data (from serial port or a UDP port) and triggers (GPIOs or status bits in a UDP frame)
- Metadata insertion into Icecast/Shoutcast streams

REMOTE BROADCASTING MODE

- Support of SIP, Direct SIP, and symmetric RTP connections
- Dual SIP registration
- Support of up to 64 independent SIP communications (mono + stereo)
- Automatic call redial
- Full centralized remote control via IQOYA CONNECT

SOFTWARE OPTIONS

- Transcoding activation mode (except TC version)
- MPEG-TS decoding
- RIST protocol (Simple and Main profiles)
- NTP-based audio synchronization
- High Availability mode (1+1 hot redundancy)
- Package of 8 additional I/O channels, for Dante and AES67 versions
- Package of 8 TC channels
- Package of 8 enhanced aptX codec