

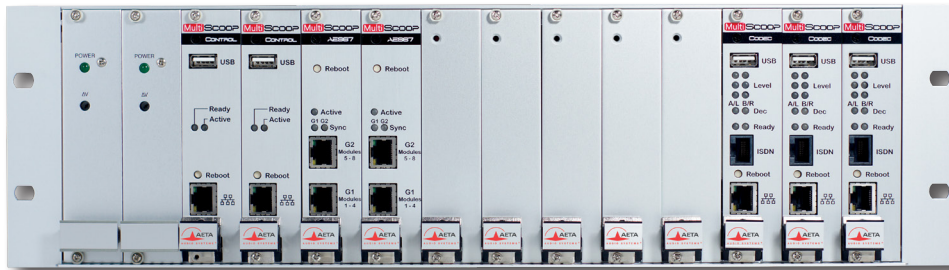
# SIMPLE AND SAFE AUDIO LINKS

## MULTI SCOOP

STEREO

All the security and redundancy you could need to perform numerous audio connections!

16 Audio channels



Ethernet / 4G / Wi-Fi



ISDN



Modular multi-channel codec with IP, ISDN and AES67



### SIMPLICITY



- + Fully independent modules and calls
- + Full Duplex connections
- + Embedded HTML server for easy access to all parameters
- + SIP or Direct RTP
- + Factory SIP accounts included
- + Simultaneous registration on 2 SIP servers for each codec module
- + N/ACIP compliant (EBU Tech 3326)
- + Wi-Fi and 4G by external USB dongle
- + Auto jitter buffer

### SAFETY



- + Double Streaming / Bonding
- + FEC for secure connection
- + Remote Access: Remote over Internet
- + Adjustable OPUS bitrate (12 - 256kb/s), during communication with no audio artefacts, to fit bandwidth
- + Redundant power supply
- + GPIO

Up to 16 audio channels in 3U

- + Flexible audio interfaces (up to 16 in 3U): analog, AES3, AES67
- + Best in class audio quality (up to 20 kHz)
- + Wi-Fi, with USB dongle
- + 4G, with USB dongle

Hot-swap modules (sold separately)

- + Up to 8 AoIP & ISDN modules (with double mono codec)
- + Up to 2 AES67 modules (RAVENNA/DANTE)
- + Up to 2 modules for global control

Full Redundancy

- + Power, control and AES67 modules
- + Separated audio and control networks for more safety

Easy supervision

- + Full control from control modules with separated networks
- + Embedded HTML server (LAN) for each modules
- + SNMP
- + ScoopManager
- + Ines SMC



Rear panel

### NETWORK INTERFACES (by codec module)

#### Ethernet/IP transmission interface

- + Ethernet interfaces, 10BaseT / 100BaseT (shared with remote control)
- + Audio transmission (AoIP) in unicast mode: SIP or "Direct RTP"
- + Net bit rate 12 to 256 kbit/s (depending on coding algorithm, linear coding excluded)
- + 100% FEC: packet replication (standard or interleaving)
- + WiFi, 4G by USB dongle
- + Multicast

#### ISDN transmission interface

- + One S0 (BRI) interface. Protocols: ETSI, NI-1, NTT
- + Single codec 64 or 128 kbit/s, or double 64 kbit/s codec
- + 5AS auto configuration on incoming calls

### CONTROL AND SUPERVISION

- + Embedded HTML server (LAN)
- + Remote Access and control over Internet - Optional
- + Transmission of digital I/O (GPIO) : 4 inputs, 4 outputs (per module)
- + SNMP
- + Control boards for monitoring at modules and power supply
- + AARC (AETA prop.protocol)
- + Ines VTS (SMC)

### MODULES

- + MultiScoop 3U rack
- + AC/DC power supply module
- + IP codec module
- + IP/ISDN codec module
- + Control module
- + AES67 module

### OPTIONS

- + Remote access
- + Scoop Manager
- + 4G USB Dongle
- + Wi-Fi USB Dongle

### ACCESSORIES

- + Audio analog/AES in/out cables
- + Blind plates

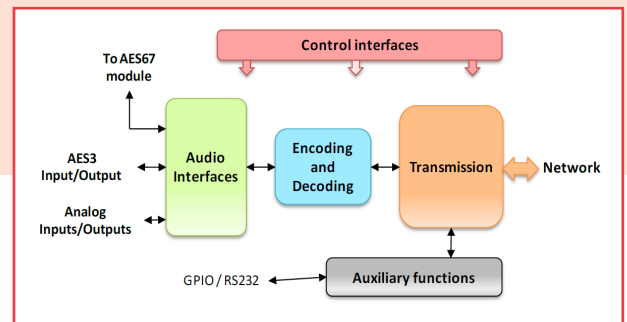
### AUDIO INTERFACES (by module)

- + 2 analog inputs
- + 2 analog outputs
- + 1 AES3 input
- + 1 AES3 output
- + Native AES67 interface (RAVENNA or DANTE)

### GENERAL

- + Power: Redundant AC 85-263 V
- + Size 3U - 19"
- + Operating temperature range 0°- 45°C

Block diagram



### CODING ALGORITHMS

Networks / Algorithms	AoIP	ISDN
G711	Mono	Mono
GSM, AMR	-	-
AMR-WB / G722.2	-	-
G722 SRT, H221, H242	Mono	Mono
MPEG Audio Layer II	Mono, Dual mono, Stereo	Mono, Dual mono, Stereo
MPEG AAC-LC, HE, HEv2, LD, ELD	Mono, Dual mono, Stereo	Mono, Dual mono, Stereo
MP3	Mono, Stereo	-
OPUS (adjustable)	Mono, Stereo	-
Linear L16, L20, L24	Mono, Stereo	-