AUTOMATION SYSTEMS

AEQ

Audio, Video and Communications for Broadcasters

INTERCOM & COMMENTARY SYSTEMS

Product Catalogue

DIGITAL AUDIO CONSOLES

TALK-SHOW SYSTEMS

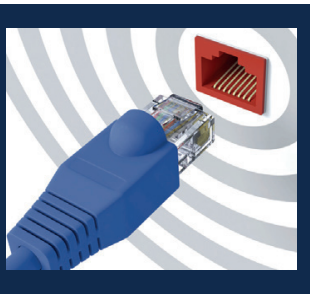
IP AUDIOCODECS

IP AoIP ROUTERS & INTERFACES

Consoles, routers and digital interfaces for broadcasting

A complete range of audio mixing consoles, routers and digital interfaces for broadcasting and production that places AEQ in a leading position in terms of design and manufacturing. AES67 IP connectivity based on DANTE™ makes installation and use easy and flexible.

Take advantage of this IP multichannel link technology in our whole range of mixing consoles, routers and digital audio interfaces!



ATRIUM

Digital audio console for radio and TV

Up to 96 motorized faders and 1000 audio channels. X_CORE engine with connectivity: micro, line, AES3, AES67, MADI, Dante™, Ravenna, SMPTE 2110-30, SMPTE 2110-31, SDI embedded audio, and more. Mono, stereo, 5.1 signals. Audio process: frequency, dynamics, reverb, delay. Autogain, automix. X_CORE Engine.

FORUM IP

Modular digital console

Can be adapted to all user scenarios. 32 summing and processing buses. 8 N-1 buses. Multichannel connectivity through AoIP or MADI. Options: Telephone hybrids, virtual control surface and touch screen for control and monitoring.

Forum IP Compact: The chassis (up to 12 or 20 faders) of the control surface incorporates the engine or Core. Up to 180 channels.

Forum IP Split: 3RU modular engine or Core FR_CORE. Up to 24 faders in modules of 4. Up to 180 channels.

Forum IP Lite: 2RU compact engine or Core M_CORE. 12 faders in modules of 4. Up to 92 channels.

CAPITOL IP PLUS

Digital console with fixed composition

With 10 faders, Dante™ connectivity from 16 to 32 channels, and 96x96 routing. It offers flexibility, modern design with color screens on each channel, and a touchscreen with touch&touch control for intuitive operation.

It stands out for its customization with programmable keys, black or silver version, and extensive connectivity options: Bluetooth, 3 amplified headphone circuits, 4 AES/EBU inputs/outputs, and up to 17 inputs and 16 analog outputs, including 5 microphones, expandable via Dante™.

X_CORE ROUTER

TDM audio matrix up to 5.120 x 5.120 circuits

Connectivity: mic, line, AES3, AES67, MADI, DANTE™, Ravenna, SMPTE 2110-30, SMPTE 2110-31, SDI embedded audio, and more. Mono, stereo, 5.1 signals. Audio process: frequency, dynamics, reverb, delay.

NETBOX 32AD, NETBOX 8AD and NETBOX 4 MH

Audio connection interfaces for Audio over IP

Interfaces for analogue and digital audio signals to/from AoIP multi-channel network transmission, AES67 or DANTE™ formats. Essential to be able to insert audio signals coming from remote sources, cabins, central controls and other studios.

Netbox 32 AD features 16 mono analog line and 8 digital stereo inputs/ outputs.
Netbox 8 AD features 4 mono analog line and 2 digital stereo inputs and outputs. One of the digital I/O's can be configured as a USB port.
Netbox 4 MH features 4 mic/line switchable inputs and 4 headphones/ analog line outputs. It rovides support for the studio signaling STUDIOBOX.

NETBOX 32 AD MX and NETBOX DSP

TDM matrices with IP inputs and outputs

Netbox 32 AD MX is a summing and distributing matrix of 64x64 inputs and outputs: 32 IP, 16 analog, and 16 digital.
Netbox DSP is a summing, distributing and processing matrix, in versions of between 64 and 160 IP inputs and outputs.

Communications

Our long and extensive track record in the Broadcasting industry is a priceless asset when developing broadcast communication equipment for all types of telecommunication infrastructures and applications, including outdoor broadcasts.

SYSTEL IP. IP Call-in System

VoIP Talk-show system, connecting with most SIP Service providers, local switchboards and audiocodecs and conventional telephony. Available SYSTEL IP TV for coordination and technical intercommunication. DANTE™/AES67 connectivity. Control by SYSTELSET+, a VoIP telephone set with touch screen. Systel IP 16 for 16 lines and 4 IP telephones, Systel IP Básic, for 8 lines and 4 IP telephones.

TALENT
Ultra-compact IP audioCodec

For personal use with a mic input, analog stereo line and Bluetooth inputs. A headphone, analog stereo line and Bluetooth outputs. HELP function. IP connectivity. It allows you to use a smartphone to control the unit, add calls to the program or to connect with the studio. SIP protocol and EBU N/ACIP standard and includes OPUS algorithms. Also included, tools for configuration and remote control assistance.

PHOENIX ALIO
Portable IP AudioCodec

4 mic inputs or 3 mics and a stereo line inputs, bass and treble controls on all inputs, tone generators, one or two bidirectional mono or stereo channels. Two pairs of headphones and a stereo line output. HELP function. IP connectivity. SIP protocol and EBU N/ACIP standard and includes OPUS algorithms. Also included, tools for configuration and remote control assistance.

SMARTALK
Cloud-based Codec system

This Service generates web links for PCs or Smartphones to instantly download an OPUS audiocodec from the cloud and automatically connects to an AEQ AudioCodec at the Station through a SIP server.
An Android or iOS app can be downloaded, ensuring precise control of the smartphone and transforming it into a high-performance portable audiocodec.

SOLARIS
High-density Multichannel Codec System

A scalable codec system starting from eight bi-directional stereo channels and that can be upgraded to reach a maximum of 64 channels — all in a 1RU! For multiple STL links, broadcasting companies and remote contributions. Audio I/O is via AoIP using Dante (AES-67 compatible) with the possibility to add redundancy. Audio encoding algorithms: G.722 and G.711, PCM audio, OPUS, MPEG-4 AAC modes plus apt-X. Communications can be established using SIP or RTP. Solaris is controlled via web browser or software.

PHOENIX VENUS 4 and VENUS 4+
Dual line IP AudioCodec

Twin IP Codecs for broadcast quality audio contributions and optional AoIP connectivity. Two simultaneous, full duplex stereo transmissions with different audio formats and qualities. SIP protocol and EBU N/ACIP standard. Includes OPUS encoding algorithms. Applications for comprehensive Configuration and remote control. Balanced analog inputs and outputs on XLR connectors and dedicated connectors for AES/EBU digital I/O's. Double network port, double RS232 auxiliary data link and optional redundant power supply. Version with 48 volt DC sources available. Optional local DANTE™/AES67 AoIP Network connectivity with an additional network port. Compatible with SMARTALK option. VENUS 4+ adds front panel controls for the basic operation of the equipment including status indication and on-screen VU-meters. With a menu to start and accept calls, execute presets...

PHOENIX MERCURY. IP AudioCodec

IP connectivity. Two-way stereo transmission. SIP protocol and in compliance with the N/ACIP recommendation of the EBU and includes OPUS algorithms. Also included, tools for configuration and remote control assistance. Balanced analog inputs and outputs on XLR connectors and optional dedicated connectors for AES/EBU digital I/O. RS232 auxiliary data link. Compatible with SMARTALK option.

Intercom Systems

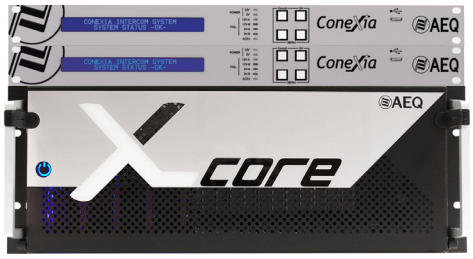
The AEQ Intercom Systems are based on the KROMA heritage, incorporate the latest technologies, and are the perfect choice for audio communication solutions. Our systems reach up to 1024x1024 broadcast quality audio sources. They can also be very simple and very practical, like the Xpeak matrix-free system, easy to set up, even in different locations, or as the Xplorer wireless system that adds mobile terminals to the other systems.

CONEXIA SYSTEM

Modular Intercom audio platform up to 1024 ports

New concept in intercom, which elevates the systems to the category of global audio solution. Capacity of up to 1024 x 1024 cross-points and is based upon a modular system of audio I/O cards. Possibility to integrate intercom and broadcast audio sources into the same matrix, with 48 KHz 24 bits sampling and a 100 % redundant system.

Compatible with all AEQ / KROMA intercom panels, and expands the interface options with Interface cards from KROMA (telephone, GSM) and AEQ (Mic, Line, AES3, AES67, MADI, DANTE™ Ravenna, SMPTE 2110-30, SMPTE 2110-31. SDI embedded audio, etc.) as well as AEQ communications equipment (Systel IP TV and Phoenix Audiocodecs).



CROSSNET SYSTEM

Compact Intercom audio platform up to 168 ports

Compact intercom matrix with AoIP multi-channel connectivity. Provided in versions from 40 up to 168x168 ports, 128 of them can be AoIP featuring DANTE™ technology, compatible with AES67 standard, which can easily be connected using existing Ethernet networks through conventional routers and switches.

In addition, there can be up to 32 other ports for AoIP inputs and outputs apart from intercom user terminals. The system also has 12 analog ports, 8 digital ports, and 20 AoIP ports with KROMA Standard low bit-rate, enabling the connection of wireless intercoms, ancillary equipment and AEQ/KROMA user panels.

TP9000 TERMINALS

New family of wired User Panels

New series 9000 desktop (TP9416) and rack-mounted (TP9116) Intercom Panels, based on 4-way levers and full color displays. Compatible with CONEXIA and CROSSNET matrices.

Audio is digitized and processed with 24 bits and at sampling frequency of 48 kHz. Full Bandwidth with negligible distortion and noise levels. The panels feature ports for Analog, Kroma legacy Digital and VoIP, as well as high-quality DANTE™, AES67 compatible connectivity.

Digital audio processing: acoustic echo cancelling, automatic power and tone adjustment to each user's voice. Expander and ambient noise gate. Very elaborate acoustics design for optimal sound intelligibility and clearness.

TP9000 series has a wide range of talk and listen functions with the individual volume control for each point of communication through a lever-type 4-way key. 16 crosspoint levers, four pages. Information is presented on four RGB graphic displays. With the EP9116 expansion panel, it is possible to build panels with up to 64 physical levers.

XPEAK SYSTEM

A matrix-less Intercom System ready for remote production

XPEAK supports up to 28 user terminals in different formats: desktop, rack, wired and wireless belt-pack, and PC application. All terminals interconnect with maximum operational flexibility and without the need for a matrix.

XPEAK interconnectivity is very simple, it is only required that the devices have access through the Internet. This makes it very easy to set up for the coordination of remote productions. Its wired user terminals have Bluetooth and USB connections, admitting all types of headsets with these interfaces and facilitating connection with smartphones and PCs. Stationary user terminals have 8 keys and the belt-packs 4 keys.

These units also can work as user panels or terminals in large systems with AEQ Conexia or Crossnet matrix. XPEAK_IF interface and format converter provides for analogue inputs and outputs, digital USB, and AoIP AES67/DANTE™.

KROMA by AEQ

Wireless Intercom Systems

To provide coverage for remote locations and where the need for free movement during production is a requirement, AEQ has designed the Xplorer and Xvirtual wireless intercom systems, along with the new Xplorer MAX system featuring WM-DEC technology on the 5 GHz band.

XPLORER MAX

New Wireless Intercom System

With WM-DEC (Wireless Multimedia-Docsis Enhanced Communication) technology on the 5 GHz band, it ensures quality of service (QoS), a range of up to 600 meters, and interference protection. Its design simplifies temporary and large-scale installations, managing multiple terminals with a single antenna. Compact and ergonomic, it features 4 programmable keys, a multifunction LED display, and compatibility with systems like Conexia, Crossnet and Xpeak.

XPLORER

Wireless Intercom System

Xplorer is an authentic wireless user panel. Based on Wi-Fi technology, it is equipped with a 4 shortcut keys user interface -arranged in pages-, two programmable keys, and a multifunction screen. It operates with Conexia or CrossNET matrices, or within the Xpeak system without matrix.

Xvirtual

For computers with iOS and Windows operating systems. Compatible with Conexia and Crossnet systems. By means of an Ethernet connection, we can have the app. installed in a PC. On an Apple Iphone, Ipod or Ipad with Wi-Fi connection that allows us to access the matrix.

Broadcast Monitors

KROMA by AEQ Broadcast Monitors have been designed to meet a very wide range of requirements for video monitoring, especially in production centres or distribution of programs.

SERIES LM9000. 4K Monitors

The series LM9000 Broadcast Monitors from KROMA by AEQ are designed with a 10 bit Quad processor and allows us to display UHD/4K Signals on the monitors. The available Monitor sizes are 55” (3840 x 2160), 31" (4096 x 2160) and 24" (3840 x 2160). The Monitors can reproduce 4K signals in Single and Quad-Link with Square-division and 2-SI formats. They are also incorporating HDR technology in order to be able to reproduce Video Signals with really high levels of Contrast, Luminance and Sharpness. High brightness versions available. With Waveform and Vectorscope tools.

SERIES LM8000. FHD Monitors

LM8000 series monitors are top of the range instruments to measure and verify video signals in broadcast and production centres, with FULL HD resolution, available in 9”, 18.5” and 24” sizes. LM8000 Series monitors are compatible with all types of audio and video inputs, including 3G-SDI and HDMI. They process video with 10-bit resolution and have the option of plugging in sfp FO transceivers with IP video inputs, or activating special inputs. Precision VU meters, phasemeter, IMD and on-screen tally, waveform, vectorscope, Picture-in-Picture (PiP) and Picture-by-Picture (PbP) and Dual-Split. They are also incorporating HDR technology in order to be able to reproduce Video Signals with really high levels of Contrast, Luminance and Sharpness.

SERIES LM7500. Preview Monitors

LM7500 series, feature a wide variety of audio and video inputs and outputs, including the 3G-SDI option. It has implemented the identification and calibration of the signal, precision Vu-meters and headphones output, In-Monitor display (IMD), tally on screen, Waveform and Vectorscope. There are different models available with different input configurations: 2x9", 2x7", 3x5” and 4x4”.

AUDIOPLUS AUTOMATION SYSTEM

For the production and broadcasting of audio for radio and TV

Automation tool for Play-Out, editing and automatic programming of audio broadcast for radio and TV. With Analogue, AES/EBU Digital USB Digital and DANTE™ AoIP Multichannel Protocol.

VISUALRPLUS. VISUAL RADIO SYSTEMS

A video processing system based on a server application that generates comprehensive video content for broadcasting over the internet or even via a TV channel. Specifically designed for visual radio, it integrates AEQ's audio consoles and IP audio interfaces as sources for commands and voice control, enabling video switching and camera control. Includes options for playout and social media integration.

OLYMPIA 3

Commentary unit for sports events

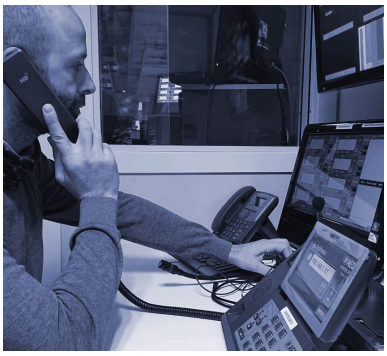
State-of-the art Digital Commentary Unit and Intercom User Panel with AoIP Connectivity, PoE powered, IP video transport, local mix and processing.

EVENT REFERENCES

Among our references you will find both Summer and Winter Olympics, Athletics World and Continental Championships, Basketball, Handball, Ice Hockey, Skiing, Cycling, Swimming and Formula 1 GP. Systems have also been delivered for OB Vans and also fixed installations in sporting arenas.

TURN-KEY SYSTEMS

The feedback between product developments, product testing and practical implementation in complex environments is vital when designing equipment with continually increasing requirements in regards to usefulness and reliability. At the same time, the support from our factory provides security and peace of mind to our customers who trust us with their projects. We are regularly being trusted with the responsibility of designing, engineering, planning and execution of turnkey projects for broadcast studios, central controls, OB vans and radio automation systems. Turnkey equipment for complete radio stations, recording studios or broadcast production centers.



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