



NEXUS

NETWORKED AUDIO MATRIX //

MODULAR | COMPACT

WE ARE STAGETEC //

FOUNDED AS A TECH COMPANY

WHEN THE TERM DIDN'T EVEN EXIST YET.

By this, we don't mean the "garage" cliché, but rather our mindset when STAGETEC started with mixing consoles and audio distribution systems in 1993. We were and still are "digital natives" * in our industry, pioneers of digital consoles and networks. The important difference is the conception of our products. No isolated solutions, instead all our developments are part of a system that simplifies integrations to the maximum and allows extensions almost without limits.

By the way: All our products are downward compatible. So, if you are working with a NEXUS from 1993, you can combine it with our current hardware and software developments at any time.

**Another buzzword that didn't exist back then.*

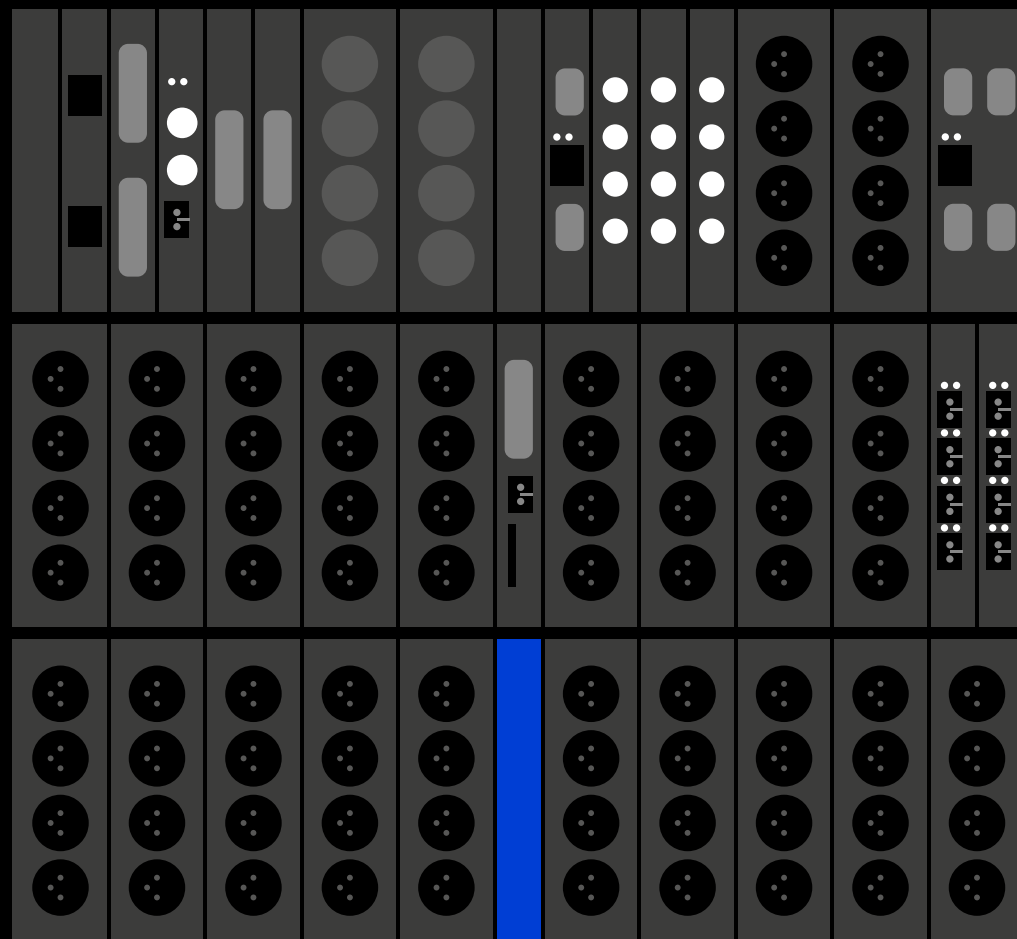
NOW, IT'S TIME FOR YOU TO DEFINE YOUR SYSTEM'S FUTURE.

At STAGETEC, we understand that each installation is unique, demanding a system that perfectly aligns with its specific composition. Our dedication to customized solutions ensures that every domain receives the ideal system assembly specification. Are you seeking a modular design that empowers you with adaptability and seamless growth? Or do you prefer the stability and simplicity of a fixed system? Why not consider a combination of both, harmonizing flexibility and permanence to suit your needs? The choice is yours to make. We also recognize that each project comes with its own priorities – whether it's practicality, flexibility, or managing initial costs. Rest assured, with STAGETEC, our NEXUS networked audio matrix systems will serve as the reliable heartbeat of your installation.

Experience unwavering reliability and witness your vision come to life. Join the ranks of our countless satisfied customers who have entrusted their installations to our innovative solutions. Choose STAGETEC for unparalleled system excellence and transform your project into an outstanding success. Unleash the possibilities. Discover our wide range of NEXUS networked audio matrix systems today and embark on your journey toward system perfection with STAGETEC.

NEXUS

modular



LARGEST AUDIO MATRIX I/O COUNT AND CROSSPOINT CAPACITY

Up to 63 nodes

65.535 x 65.535 addressable I/O

72 million cross points

Up to 2,048 ch / fiber

Up to 256 ch / stream

...SO MUCH MORE THAN AN AUDIO ROUTER.

In countless installations around the world, a NEXUS system is the core component for networking, routing and processing audio, control and ancillary data. Countless installations, ranging from studio routers to control room routers to complete networks in broadcast centers, prove the flexibility of the system.

NEXUS modular also excels in ultra-low latency values, reliability and versatility in the centers of smaller installations, including portable transmission systems with highend stage boxes, as well as in mid-sized installations in OB vehicles or sound reinforcement systems.

IN ADDITION THE SYSTEM PROVIDES:

A/D and D/A conversion – **TrueMatch** quality

Audio conversion (32-bit resolution)

Audio processing

SDI audio embedding & de-embedding

Custom DSP configuration

Multichannel metering

EBU R128-compliant loudness metering

Flexible intercom applications

Tunnelling of serial non-audio data

Control of third-party systems

User-programmable internal logic and control functions

Integration in standard studio control systems:

KSC, VSM, Vzrt



THE INDIVIDUALIST.

UNMATCHED PERFORMANCE FOR ANY APPLICATION: A PROPRIETARY SYSTEM WHICH IS COMPATIBLE WITH ALL POPULAR FORMATS AND STANDARDS. NEXUS MODULAR SUPPORTS ANALOG AS WELL AS DIGITAL FORMATS. IN ADDITION, IT ALSO ROUTES NON-AUDIO FORMATS AND SERIAL DATA ACROSS THE NETWORK. IT NOT ONLY EXCELS IN AUDIO QUALITY, BUT IS ALSO AMAZINGLY RELIABLE, INTEGRABLE AND SCALABLE. A HUGE AUDIO-NETWORK WHICH CAN BE COMPOSED FOR YOUR INDIVIDUAL NEEDS.

THE IDEA

A NEXUS network consists of separate base devices that are placed wherever you want to pass audio, control and other signals to and from the network. All base devices are connected to each other via digital links, which are floating fiber optic cables. Each base device acts as an autonomous local router. In this way, a NEXUS network provides distributed intelligence, including decentralised control and crosspoint information.

CUSTOMISABLE

Each base device has an individual configuration with all interfaces and modules needed on site. The base device network allows routing of any sources to any destination, regardless of I/O formats and their physical location on the network. This eliminates the need for complex and costly format conversions.

TDM AND IP

Internally, Time-Division Multiplexing (TDM) with dynamic time slot allocation ensures ultra-fast signal transmission within just a few samples. Normally, you operate the NEXUS via a graphical user interface running on a configuration computer. The computer can be connected to any base device on the network via ethernet, USB or serial connections. You can save all settings and operate the whole audio network from any place where a control interface is installed.

REDUNDANCY

Secure operation is a key feature of NEXUS: Each base unit has a dedicated CPU – a setup that reliably prevents the entire system from failing in the event of a failure. In addition, you can optionally use redundant power supplies and optical links to ensure secure operation. The NEXUS Star is a star router designed for large networks and therefore offers a redundant processor and routing card. In addition, the STAR can also be configured with redundant MADI ports. In the event of a power supply, optical link or MADI failure, the system silently and inaudibly switches to the required backup component. Ring, star and mixed topologies also enable rerouting of the transmitted signal.

STATUS MESSAGES

In the event of a failure, the system’s internal watchdog triggers an alarm. All problems are displayed on the graphical user interface. Interface cards are hot-swappable, meaning you can replace them during system operation without affecting other components or signal flow.

OPERATION AND MONITORING

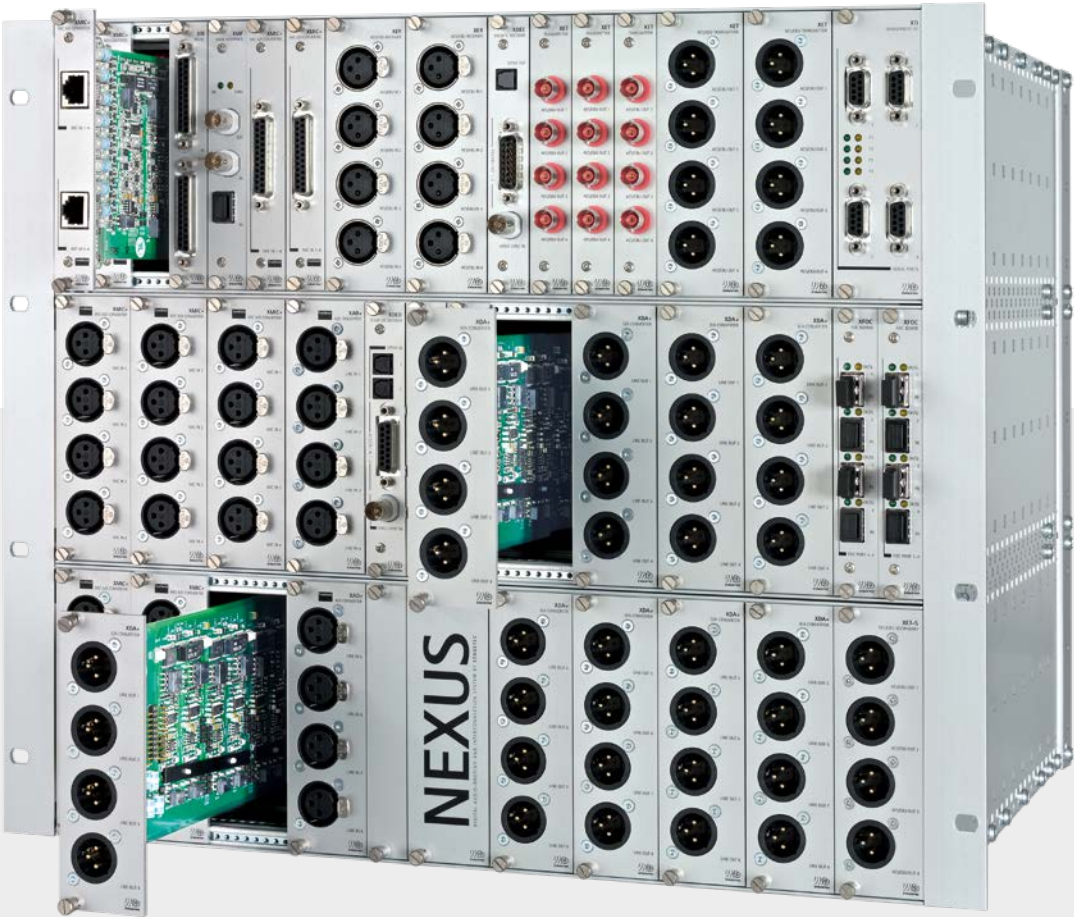
Many third-party controllers support the NEXUS modular control protocol. This allows NEXUS networks to integrate seamlessly with global router or studio controllers in almost any configuration, and also supports SNMP management. In general, you can control NEXUS via IP, GPIO, USB or serial interfaces.

IP SUPPORT

NEXUS supports various IP-based technologies, from multi-channel audio transmission via Dante or AES67 to a variety of control methods. For internal real-time routing, the system uses a separate ultrafast high performance TDM bus. The universal XACI control interface with ethernet ports has built-in switch, which handles complex tasks that would otherwise require the use of external server hardware. IP is also used to integrate the NEXUS SNMP agent into the global SNMP scheme for system monitoring, and IP can be transparently tunneled through NEXUS.

CUSTOMISED SWITCHING

The integrated native programming environment allows you to define logical switching operations ranging from simple tally signal forwarding to full reconfiguration of studio and controller complexes (including emergency switching). The integrated documentation makes all logical operations on the system completely transparent. BASIC COMPONENTS NEXUS base devices come in various sizes. They all feature a 19” main-frame with a processor card, a backplane and optical interface cards. All base devices are separately configured with audio interfaces, DSPs, and other interface cards as per customer specifications.



FORMATS

- AES
- S/PDIF
- ADAT
- MADI
- Dolby E
- SDI
- Analogue

AES67

Dante™

RAVENNA

SMPT-E:2110



CONNECTIONS

- XLR
- BNC
- RJ45
- Cinch
- D-Sub
- Optical
- RS232/422
- USB

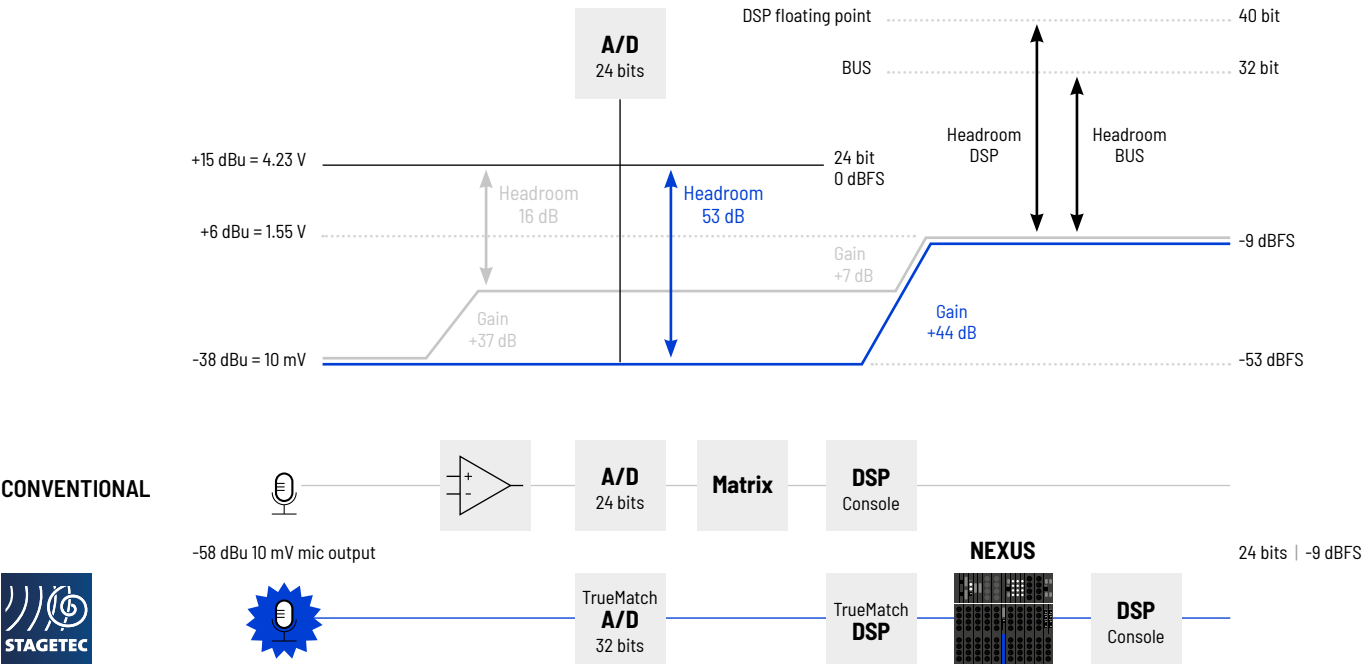
HUGE AUDIO NETWORK. NUMEROUS BENEFITS.

NEXUS MODULAR NETWORK OR CONFIGURATION CAN CONTAIN UP TO 63 NODES OR BASE DEVICES OR EDGE POINTS. SINCE EACH BASE DEVICE HAS 256 INPUTS AND 256 OUTPUTS OR 4.096 x 4.096 IN THE CASE OF NEXUS STAR. ADDITIONALLY, AN XRT IS A SPECIAL ROUTER CARD WITH A CAPACITY OF 8.448 x 8.448. THE NETWORK OR COMPLETE MATRIX CAN BE BUILT UP TO 65.535 x 65.535 ADDRESSABLE INPUTS AND THE SAME NUMBER OF OUTPUTS. THE USER INTERFACE CAN MANAGE UP TO 72 MILLION CROSS POINTS, ALL STORED WITH SYSTEM-WIDE PARAMETERS IN EACH OF THE BASE DEVICE'S CPU.

1:1 MICROPHONE CONVERSION WITHOUT ANALOGUE GAIN STAGE

Our TrueMatch microphone input is the best known exclusive STAGETEC technology. Since the late 90's, our TrueMatch mic ADC is still the reference for recording because it features a 32-bit A/D and no analog ADC stage that usually causes noise, distortion, coloration, hum and other audio artefacts. If the ubiquitous 24-bit AD converter were used without an analog ADC stage, only 8 to 10 bits would be used when a microphone is connected directly, resulting in a very high noise floor or small dynamic range. Using a TrueMatch 32-bit A/D results in an

impressive dynamic range of 158 dBA (@24 dBu), leaving the competition far behind. The TrueMatch 32-bit converter ADC converts to microphone level (-58 dBu). Gain to nominal level is in the digital domain and exceeds 158 dBA dynamic range and huge headroom. The gain stage used to bring a microphone signal to unity or program level is performed in DSP in the digital domain. Since the input can handle signals up to +24 dBu without clipping, separate line inputs are not required. All microphone inputs can be digitally split 4 ways, with each split having independent control.



A/D CONVERTER WITH 158 DBA DYNAMIC RANGE

A microphone outputs in this example 10 mV. With a classic analog gain stage and a setting of 37 dB we get to -16 dBFS. When a commentator starts to scream = +20 dB you get 4 dB of clipping. Or a snare drum hits results in much harder clipping. So when using a TrueMatch there is no analog gain stage. The 10 mV ends up as -53 dBFS or 53 dB of headroom before clipping. The gain is done in the digital domain. As a result, no clipping and 1:1 microphone signal transfer without coloring and the maximum of headroom.

DECENTRALISED ROUTER

NEXUS is a non centralised matrix with dynamic routing. The network can be set up in a ring/star (mixed) configuration. Up to 4.096 (2.048 bi-directional) channels with 6 Gbit/s bandwidth can be transported per fiber. When transmitting in ST2110 format, up to 256 channels and 32 streams per port are transmitted.

The NEXUS nodes can be interconnected via TCP/IP Layer 3 switches and correspond to the ST2110 format. When using NEXUS-IP link, the nodes can operate in an IP environment. One of the highlights: NEXUS can operate in three modes: traditionally, fully IP or hybrid! This gives customers the ability to plan the transition to IP in a gradual, budget-friendly manner. If traditional TDM fiber is a proprietary format with no latency and IP is an open format with potential latency issues, NEXUS gives you the choice depending on your application. A simple example: If for a live and/or music broadcast application, latency is a priority, while for transmission, distribution or communication an open IP format is needed, NEXUS is the right way for you.

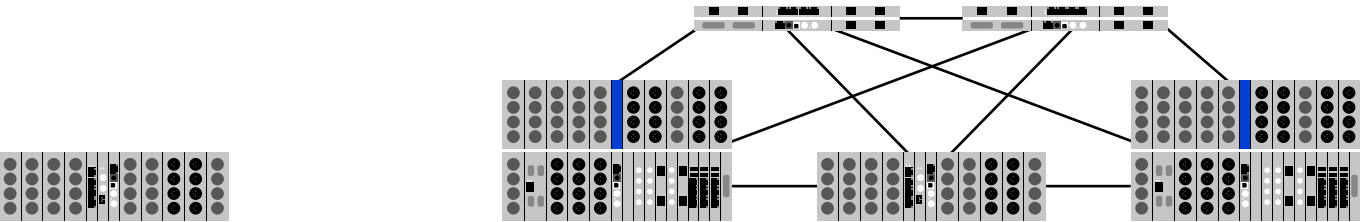
OPERATING MODES

NEXUS modular in standalone use

- Reference converter
- Recording interface
- Format converter, splitter

NEXUS modular in a campus environment

- Decentralised distribution
- Individual topologies possible
- Campus networking



MODULAR. PROVEN. GROWING.

TECHNOLOGIES STILL UNMATCHED IN THE INDUSTRY.

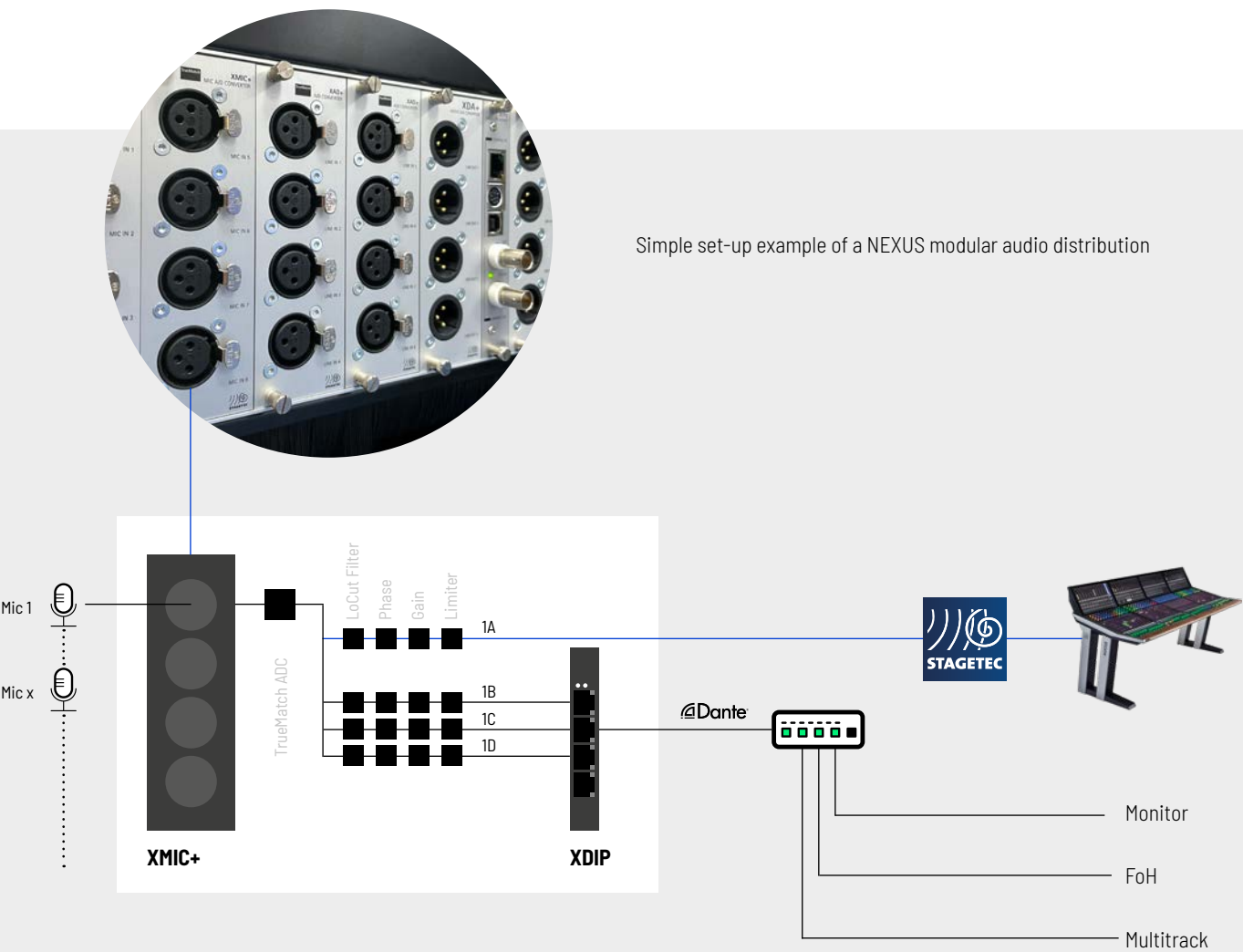
30 YEARS AGO WE DEVELOPED A REAL “NERD-TECHNOLOGY” IN THE FIELD OF MUSIC PRODUCTION. THE ADVANTAGES OVER THE COMPETITION ARE UNMATCHED TODAY AND OUR PRODUCTS ARE STILL COMPATIBLE WITH THE FIRST GENERATION. THE LATEST FEATURES CAN ALSO BE USED ON YOUR OLD DEVICES. THIS HAS BEEN SUSTAINABILITY FROM DAY ONE.

UNIQUE NEXUS 4-SPLIT MICROPHONE WITH INDEPENDENT CONTROL

Thanks to its innovative and sophisticated circuit design, the XMIC+ board features transformer-isolated balanced inputs that avoid the drawbacks of conventional circuit designs. Since they are completely floating – when phantom power is disabled – they can be used as balanced or unbalanced inputs. The XMIC+ board can be used either in the conventional way with a single output or with up to four independent outputs per microphone input, using the splitter function. The splitter function is configured so that each user sees and accesses only one of the four splitter outputs. Each splitter output is controlled completely independently: gain, phase, lo-cut, limiter and generator. The other outputs are not affected.

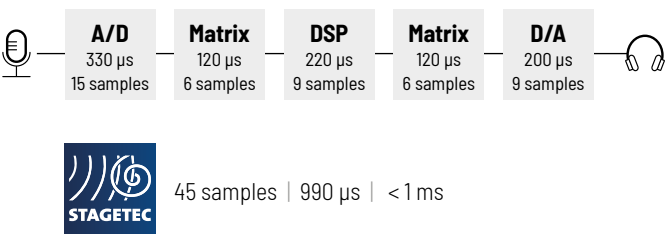
For phantom power, the software uses an “OR” function. Thus, microphones are only supplied with phantom power if at least one user has activated this function. Signals treated differently can be sent to each of the independent split outputs.

The microphone splitter function provides the ability to eliminate the need for external equipment. Combined with the use of AoIP, and/or MADI, this increases reliability and simplifies setup. Note that the STAGETEC TrueMatch microphone input has no analog gain stage as it uses a 32-bit AD converter.



SHORTEST SYSTEM LATENCY

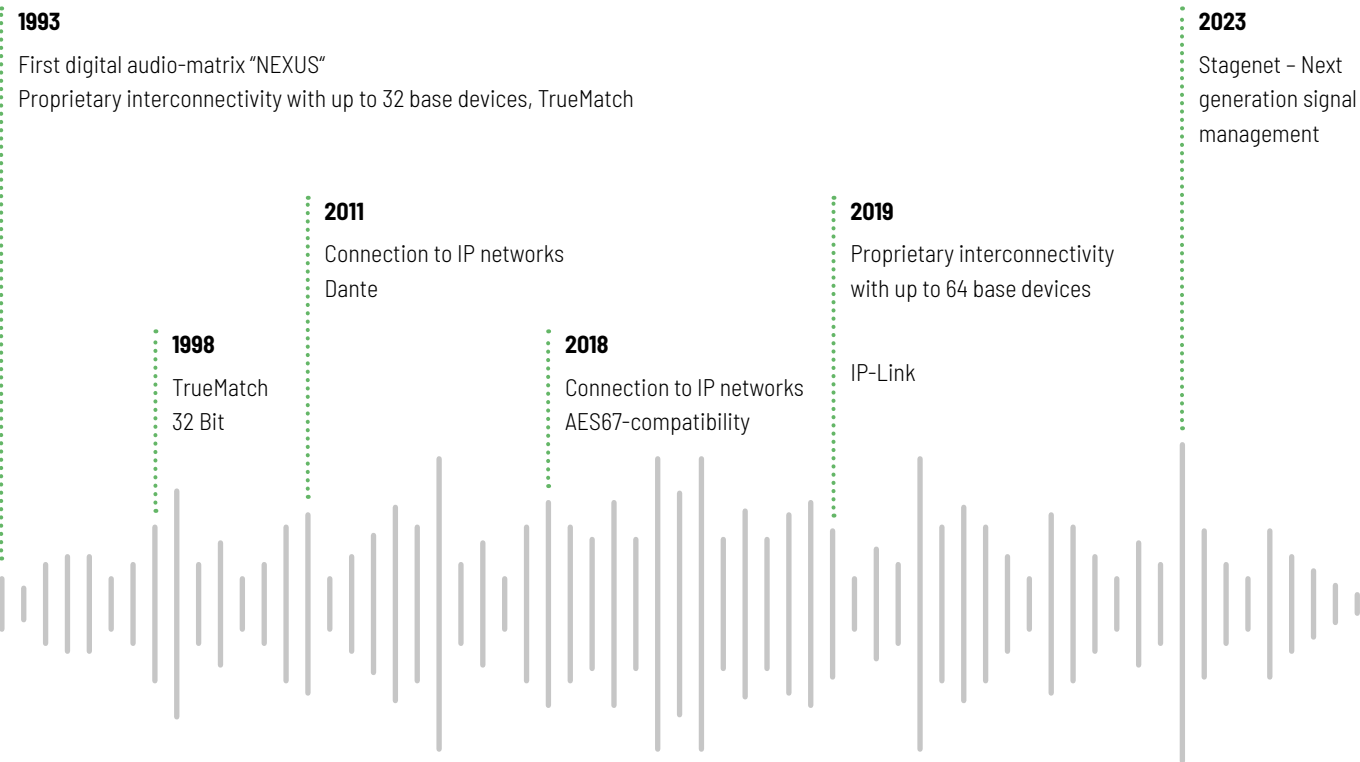
Latency is important in live transmission. An example of a typical recording session is illustrated here: a microphone (commentator, voice talent) feeds the headphone. If the delay between microphone and the voice on the headphones exceeds 6-8 ms you get complaints. This becomes more important if the signal goes back and forth in the system, so when the delays add up on each path. When IP gets involved, the situation deteriorates by adding its own latency. With STAGETEC's technology we can make sure delays stay under 1 ms. Hence providing some headroom before any latency complaints might occur.



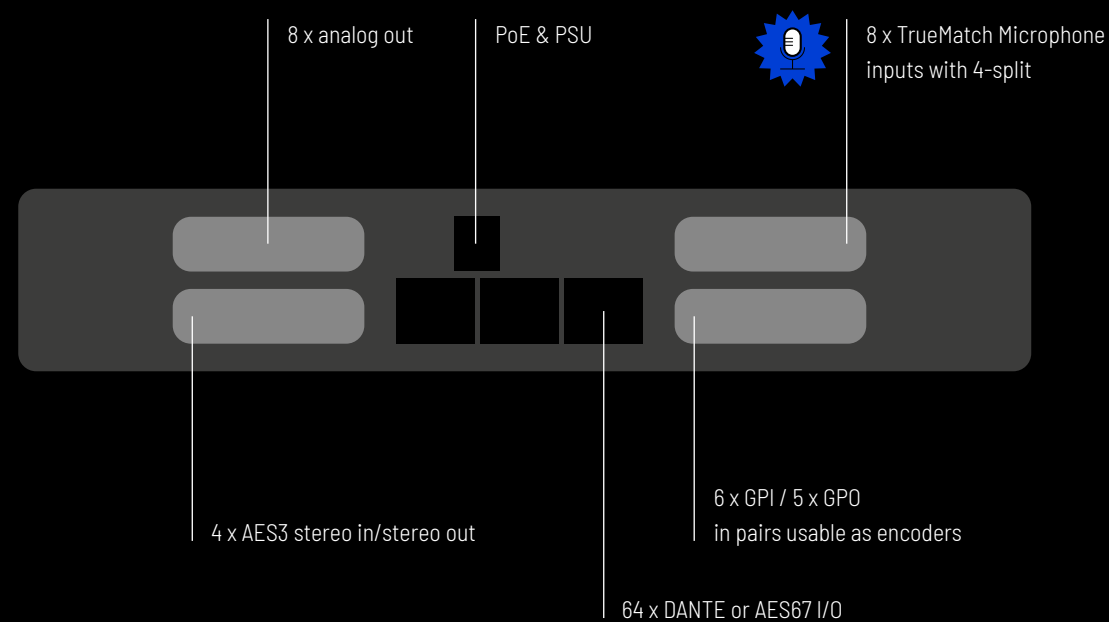
INTER-GENERATION UPGRADABILITY

The idea behind NEXUS is the non-centralised router matrix. The hardware has evolved following technology development of new I/O-standards and new signal transport formats. Audio-over-IP was introduced as an additional I/O-standard, while today the system nodes or base devices (stage boxes) can be interconnected in a TCP IP layer 3 format or connect over standard switches instead of legacy TDM fiber. The fact is NEXUS is nowadays a hybrid system which can still interconnect over legacy TDM or on the other hand, 100% over IP, or mixed – according to the choice of the customer. Second fact is that older generation I/O-boards still can be used in actual modular NEXUS racks. A microphone board from late 90's can still be used in new frames, and vice versa. Other competitors only maintain a much shorter product availability cycle, after which the older generation hardware is discontinued. For long-term planning, STAGETEC is your better choice.

More than 30 years continuous support



NEXUS compact



STATE-OF-THE-ART AUDIO QUALITY.



The compact housing (1/2 size of a 1U 19" rack) converts baseband and analog signals into IP audio standards such as AES67/Dante/Ravenna/ST 2110 - 30/31. Uses open standards and protocols. A web-browser based user interface controls the on-board DSP mixer functions.

DSP FUNCTIONS FOR LOCAL SOUND PROCESSING:

- 120 x 16 Mix Matrix
- 16 x Input processing (Delay, Exp, EQ, Comp)
- 16 x Output processing (EQ, Comp, Lim, Delay)

THE COMPACT ONE.

NEXUS COMPACT OFFERS THE SAME STATE-OF-THE-ART AUDIO QUALITY AND OUTSTANDING RELIABILITY AS NEXUS MODULAR. APART FROM BEING A SLIM EDGE DEVICE FOR NEXUS NETWORKS AND AVATUS MIXING CONSOLES, NEXUS COMPACT CAN BE SEAMLESSLY INTEGRATED INTO BROADCAST ENVIRONMENTS VIA EMBER+ AND GPIOS.

USER INTERFACE

A web-browser can be used to control the NEXUS compact. Just putting the IP address or URL in any browser on a tablet or laptop operating in the same domain will visualise a comprehensive user interface. Giving access to all parameters of the I/O resources, as storing snapshots and configuring the GPIOs.

RELIABILITY

In addition to PoE (power-over-ethernet) and external power supply, the network redundancy is implemented with SMPTE 2022-7 seamless protection switching as required in a contemporary SMPTE 2110 workflow.

APPLICATION AREAS

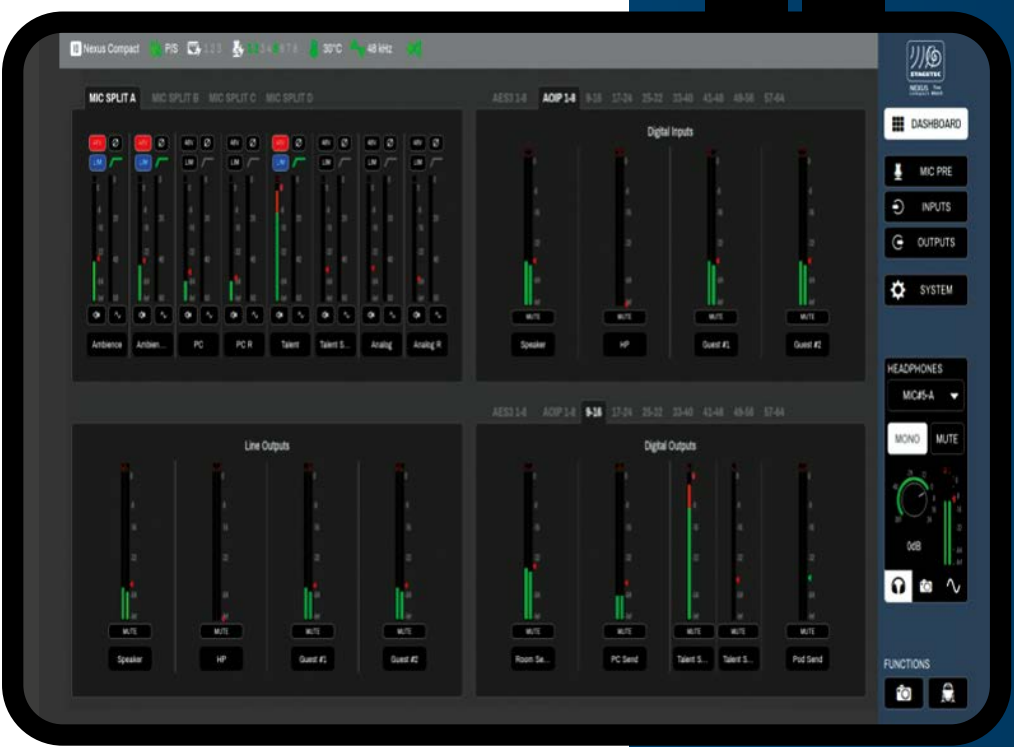
- Reference microphone converter for recording studios
- Compact design easily connected to an existing network in DANTE or AES67 format
- Connecting microphone arrays on-camera for immersive sound pick up and transport over IP. Small workstations I/O
- Reference monitoring with GPI source select
- On-site mixing for remote productions to mix local sources with IFBs without delay
- Commentary box for sports or e-games
- Swiss army knife for PA system engineers

STAGETEC IP

NEXUS compact has embraced IP with the introduction of Dante. Later on, AES67 and SMPTE 2110 were added to our roadmap. Since 2018 our consoles connect over IP to the core, making it possible for a full IP STAGETEC solution. Keeping the hybrid option open for backwards compatibility and your peace of mind for a budget friendly upgrade.

TRUE MATCH

The patented TrueMatch technology provides uncompromising audio quality. It features minimal transducer errors, low distortion, and improved aliasing suppression, while achieving an otherwise unattainable dynamic range of 158 dB. The special four-stage operation of TrueMatch converters eliminates the need for analog lification. Analog overload or component noise is thus eliminated.



EMBER+

NMOS

SMPTE-2022-7

SMPTE-2110

stagenet





NEXUS Star Router specifications				96 KHZ operation cuts channel count in half!
X19-3RU	NEXUS base device, 1 active row	3U, 420 mm in depth	20 free slots receiving audio, controller, sync and optical interface cards Routing technology: TDM bus.	
X19-6RU-01	With passive top row (optional) with passive	6U in total	Optional: additional passive row for detached	
X19-6RU-10	bottom row (optional) NEXUS Base Device,	6U in total 6U, 420 mm in depth	XLR panels.	
X19-6RU-11	2 active rows.		40 free slots receiving audio, controller, sync, and optical interface cards.	
X19-9RU-011	With passive top row (optional)	9U in total	Routing technology: TDM bus	
X19-9RU-110	With passive bottom row (optional)	9U in total 9U, 420 mm in depth	Optional: additional passive row for detached	
X19-9RU-111	NEXUS base device, 3 active rows		XLR panels.	
			60 free slots receiving audio, controller, sync, and optical interface cards.	
X19-12RU-0111	With passive top row (optional)	12U in total	Optional: additional passive row for detached	
X19-12RU-1110	With passive bottom row (optional)	12U in total	XLR panels.	
X19-12RU-0110	With passive top and bottom rows (optional)	12U in total		
X19-15RU-01110	With passive top and bottom rows (optional)	15U in total	Routing technology: TDM bus	
X19-1RU	NEXUS base device (compact)	1U, 440 mm in depth	5 free slots receiving audio, controller, sync, and optical interface cards.	
			Routing technology: TDM bus	
R19-6RU	NEXUS STAR router base device	6U, 410 mm in depth	16 (8L, 8R) free slots for audio and optical inter-face cards, 2 free slots for the RCX controller card (optional, redundant), 1 free slot for the RSYNC sync card.	
			Routing technology: 4.096:4.096 matrix	

System Cards for X19 Base Devices

XCPU	Base device CPU	Base device and bus management, system-control interfaces (IP, USB, RS232), clock generation and conditioning, external wordclock-sync input, network-synced wordclock output.
XFOC	Optical interface for the NEXUS	4 SFP ports (interface modules for various fibre types), NEXUS in-sync networking (audio, clock, and control data), up to 256 bi-directional audio channels (@48 KHz); built-in matrix (separate from the TDM bus – requires Rev. 8 or later).
XRT	High-performance optical interface with built-in routing matrix	High-performance optical interface card with built-in 8.448:8.448 router (@48 KHz), 12 optical ports handling 512 or 2.048 audio channels each high-speed network bypassing the TDM bus.
XSYNC	Video-sync card	Supports external internet tunnelling by SFP modules sync formats including TriLevel and Blackburst.

System Cards for R19 Star Routers

RCX	Base device CPU for STAR routers	Base device and bus management, system-control interfaces (IP, USB, RS232), clock generation and conditioning, external wordclock-sync input, network-synced wordclock output, 4.000:4.000 routing matrix (@48 KHz).
RFOC	Optical interface for the NEXUS	4 SFP ports (interface modules for various fibre types), NEXUS in-sync networking (audio, clock, and control data), up to 256 bi-directional audio channels (@48 KHz).
RSYNC	Video-sync card	Supports external sync formats including TriLevel and Blackburst.

Operation and monitoring

XCI		NEXUS control interface	Multifunctional control interface, configurable ports (MIDI, Yamaha AD8HR, machine control); internal miniSD card supporting the NEXUS status-load feature, IP-control interface (configured using the GUI), SNMP.
	-4 HP	2 serial ports	
	-8 HP	4 serial ports	
XACI		NEXUS advanced control interface	Control interface incorporating an embedded PC module and an audio-bus interface, 2 USB ports, 3 Ethernet ports; use cases: EmBER+; FLEX-console proxy hosting (more use cases planned).
XRI	Rev 05	NEXUS relay interface	24 optocoupler inputs, 24 semiconductor-relay outputs (AC/DC), internal/ external supply, common pin or isolated pairs, programmable functions using NEXUS Logic Control.

Fibre specifications

			Examples – other SFP module types (e.g. CWDM / DWDM) available on request
SFPM	F0-01	SFP module for XFOC/RFOC	LC duplex, 1.310 nm, SM: 10 km, MM: 500 m (default)
	F0-04	SFP module for XFOC/RFOC	LC duplex, 1.310 nm, SM: 20 km
	F0-08 A/B	SFP module for XFOC/RFOC	LC simplex, 1.310 nm/1.550 nm WDM, SM: upto 10 km
	MF-01	SFP module for XMF/RMF (MADI)	LC duplex, 1.310 nm, MM: 2 km (default)
	MF-02	SFP module for XMF/RMF (MADI)	LC duplex, 1.310 nm, SM: 10 km
	HD-02	SFP module for XHDI (HD-SDI)	LC duplex, 1.310 nm, SM: 30 km (SD), 20 km (HD)

Optical Multiplexer for duplex links

Transparent transmission, cascadable units			
OMUX	-LC	1:4 optical multiplexer, re-clocking (optional), 1-4 units inside a 19” 1U mainframe	Standalone unit, internal plus redundant power supplies, auto (priority-controlled) or GPI-controlled operation; can be reconfigured as unidirectional in-parallel router (for example, for MADI).
	-LCT (1) ... (4)		
XMUX	-LC	1:4 optical multiplexer, re-clocking (optional), 1 plug-in card	Plug-in card for NEXUS X19 Base Devices, auto (priority-controlled) operation; can be reconfigured as unidirectional in-parallel router (for example, for MADI).
	-LCT		

Built-in processing

XDSP	Rev. 06	DSP card for NEXUS X19 base device	Custom configuration using freely routable processor modules (faders, EQs, filters, dynamics, delays, summers, IFBs, downmix, mix-minus matrix, cross-over, M/S decoder, de-esser, and many more); capacity (@48kHz): 2 × 1.000 summing points, 20 min. audio delay.
		2 processors (Sharc 21469)	
		DSP configuration per customer specifications	Custom solutions such as single-destination auto-crossfade, etc. available on request.
ISO- STEM	-L	ISOSTEM Upmix 5.1 (dongle)	Plug-in for use with one processor of an XDSP Rev06 card.

Transparent tunnelling

XTI		Serial-data transport interface	Supports transparent transmission of serial data (MIDI, RS 232, RS 422, RS 485, DMX, LTC, Dolby metadata) through the NEXUS network, 2 or 4 duplex ports, separately routed transmission in each direction, allows both parallel routing and point-to-point links.
	-4 HP	2 serial ports	
	-8 HP	4 serial ports	

High-Quality analog range

			Fullscale [0..24 dBu]
XMIC+	-X, -D, -R	8-channel microphone converter	32-bit TrueMatch A/D converter, 158 dB (A) dynamics at 24 dBu, no analogue ADClification required, ultralow latency, exceptional pulse fidelity, phantom power, auto-mute when connecting/disconnecting powered micro-phones, DI-box functionality, galvanically transformer-isolated channels; Software option: active 1:4 splitter per input converter, with gain, subsonic filter, and limiter for each splitter output.
XAD+	-X, -D, -R	8-channel analogue line-input converter	24-bit TrueMatch A/D converter, 133 dB (A) dynamics at 24 dBu, galvanically transformer-isolated channels
XDA+	-X, -D, -R	8-channel analogue line-output converter	24-bit TrueMatch D/A converter, 131 dB (A) dynamics at 24 dBu, galvanically transformer-isolated outputs.

AES standard range			
XETR	-X, -B	4 AES/EBU input ports and 4 AES/EBU output ports	Combo unit featuring 4 AES digital 2-channel inputs and 4 AES digital 2-channel outputs, with I/O SRCs.
Compact range			
HXAD	-D, -R	8 line inputs (2-channel)	24-bit TrueMatch A/D converter, 112 dB(A) dynamics at 15 dBu, galvanically isolated channel pairs.
HXDA	-D, -R	8 line outputs (2-channel)	24-bit TrueMatch D/A converter, 120 dB(A) dynamics at 15 dBu, galvanically isolated channel pairs.
HXETR	-D, -R	8 AES/EBU input ports and 8 AES/EBU output ports	Combo unit featuring 8 AES digital 2-channel inputs with SRCs and 8 AES digital 2-channel outputs without SRCs.
Multichannel formats			
XDIP		Dante AoIP-interface	Audio-over-IP duplex interface, 64 inputs and 64 outputs (@48kHz); SRCs; 1 Audinate DANTE Brooklyn II; AES67; stabilised clock regeneration, 4x switch supporting primary/secondary cabling.
XMF	-BLC SRC	Single MADI port for NEXUS X19 base devices	64 inputs, 64 outputs (@48kHz) per port, BNC port, SFP slot, SFP module (optional). SRC option: 2 × 32 channels (64 in or 64 out or 32 in/32 out).
RMF	BLC	4 MADI ports for NEXUS R19 Star routers	64 inputs, 64 outputs (@48kHz) per port, BNC port, SFP slot, SFP module (optional).
RIF67		MADI & AoIP-interface	Audio-over-IP interface for NEXUS Star router; supports AES67 and Ravenna; equipped with up to 4 AES67 I/O modules by DirectOut; each module has 2 ethernet ports; the board provides 256 inputs and 256 outputs, up to 128 streams; one single or 4 separated IP-networks can be supplied; 8 RJ45 ports, 2 ports for each AES67 I/O module; sample-accurate synchronisation.
XFIP		Fiber & IP interface	Fiber and Audio-over-IP interface; equipped with AES67 I/O module by Direct-Out; supports AES67 and Ravenna; 256 inputs and 256 outputs in a maximum of 32 streams, supports redundant audio transmission as per SMPTE 2022-7.
Embedded audio			
XHDI	-B -B/LC -B -LC	Combo unit with 16-channel HD-SDI embedder and 16-channel HD-SDI de-embedder	Processes the embedded audio of a serial video stream compliant with SMPTE 259M (SD), SMPTE 292M (HD), or SMPTE 424M/425M (3G). The de-embedder extracts 16 channels while the embedder embeds 16 channels. Embed mode (Emb, Replace, Clr, Byp) selectable per group SMPTE 2020 compliant metadata embedder/de-embedder. Video delay, I/O SRCs (optional).

Legend

- X with XLR ports
- R RJ45 version
- B BNC version
- D D-sub port
- O OptoXLR version
- BLC BNC + LC version



EVERYTHING FOR OPTIMAL RESULTS.

When asked what sets us apart from other brands, our response is: we don't consider ourselves the center of your world. We simply want to be a part of it. For us, this means that not only do our developments harmonize brilliantly with each other, but our products also bring an openness and seamless compatibility to many other solutions. This makes your work easier, expands your flexibility, and ultimately saves your nerves. Why this is important to us: you can fully focus on your work - and we can enjoy magnificent productions with you.

THE WORLD IS OUR STAGE



AUDIO NETWORK // Extremely low latency. Highest reliability. Maximum flexibility.
The heart for your network, for your routing and processing of audio and control data.



MIXING CONSOLES // Intuitive handling thanks to individually scalable surfaces.
Highest quality and maximum flexibility for your productions.



IP SIGNAL MANAGEMENT // Setting up and operating an AVoIP system today has never been easier.
Control and monitoring of all signals of your productions.

STAGETEC

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