

AIXpressor

The Junger Audio AIXpressor is a processing powerhouse taking Junger Audio's legendary performance and sound quality to the next level.



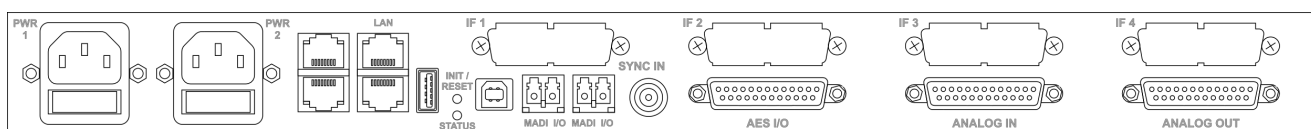
Jünger Audio® AIXpressor

Universal Audio Interface with optional Jünger Power House Processing





Reliable hardware.
Flexible software.



Overview

The Jünger Audio AIXpressor offers unparalleled I/O flexibility and audio processing power. It takes converting AoIP to and from other formats to a whole new level with Telos Alliance Livewire+, AES67, and SMPTE ST 2110-30 AoIP formats built-in, along with support for a vast array of traditional broadcast and audio interfaces including analog, MADI, AES3, and SDI*. Even Audinate's Dante* AoIP protocol can be supported.

A new processing architecture, flexAI, makes deploying legendary Jünger Audio processing on the AIXpressor simple and easy to tailor to your needs, making this unit a processing power house. The flexAI system can scale the processing power to an almost unfathomable level by using a new interface format, tieLight, to transport up to 1024 channels of audio virtually latency free to an additional processing unit such as the flexAI server.

Features

- Powerful x86 based processing core
- On board interfaces:
 - Audio-over-IP
 - AES67 / SMPTE ST 2110-30
 - Telos Alliance Livewire+
 - 2x MADI or proprietary 1024-ch tieLight via SFP modules (sold separately)
 - AES3 I/O; user selectable between 4/4 or 2/6
 - Analog I/O; user selectable between 8/8 or 4/12
 - Reference Sync in

* via optional I/O card

Maximum flexibility



- 4 option card slots to support additional I/O modules for formats such as SDI (3G/HD/SD), Microphone inputs, Dante, and other optional I/O
- Powerful headphone output
- Dual, redundant, universal Power Supplies
- Browser-based remote control
- 16.5 cm touch sensitive display
- Optional Audio processing
 - Program Processing including Level Magic Loudness Processor
 - Voice Processing
 - Voice Over Mixing (stereo and 5.1) w/ mix-minus and output processing
 - Upmixing
 - GfK Watermarking
 - Dolby E encoding / decoding
 - MPEG-H 3D Audio Renderer
 - MPEG-H 3D Audio Authoring
- SNMP
- Ember+

In Depth

Interface Chameleon

The AIXpressor comes in a compact one rack unit high 19" housing, packed with a high-performance processing system and comprehensive media interfacing. It is equipped with a plethora of on-board media interfaces and four expansion slots for maximum flexibility. AIXpressor comes with redundant Ethernet ports as well as Audio-over-IP (AoIP) interfaces which support IP-based media formats and standards such as Telos Alliance Livewire+, AES67, and SMPTE ST2110-30. MADI, AES3 and analog I/O complete its comprehensive range of built-in audio connections.

Four expansion slots can be equipped with additional expansion cards, such as 3G/HD-SDI,** Audinate's Dante AoIP, microphone inputs, optical and coaxial MADI, AES3 and analog inputs and outputs.

**** UHD workflows can be supported via four SDI option cards**



Demand a solution, not just a machine

Processing Power House

Powered by an x86 CPU based processor board, AIXpressor is Jünger Audio's most flexible and advanced audio processing solution to date with almost unlimited possibilities, and is open for future upgrades as technology evolves.

The new processing core is powerful enough to compute audio decoding, processing and encoding without any need for additional DSP cards or codec boards.

flexAI - Any Process, All Platforms

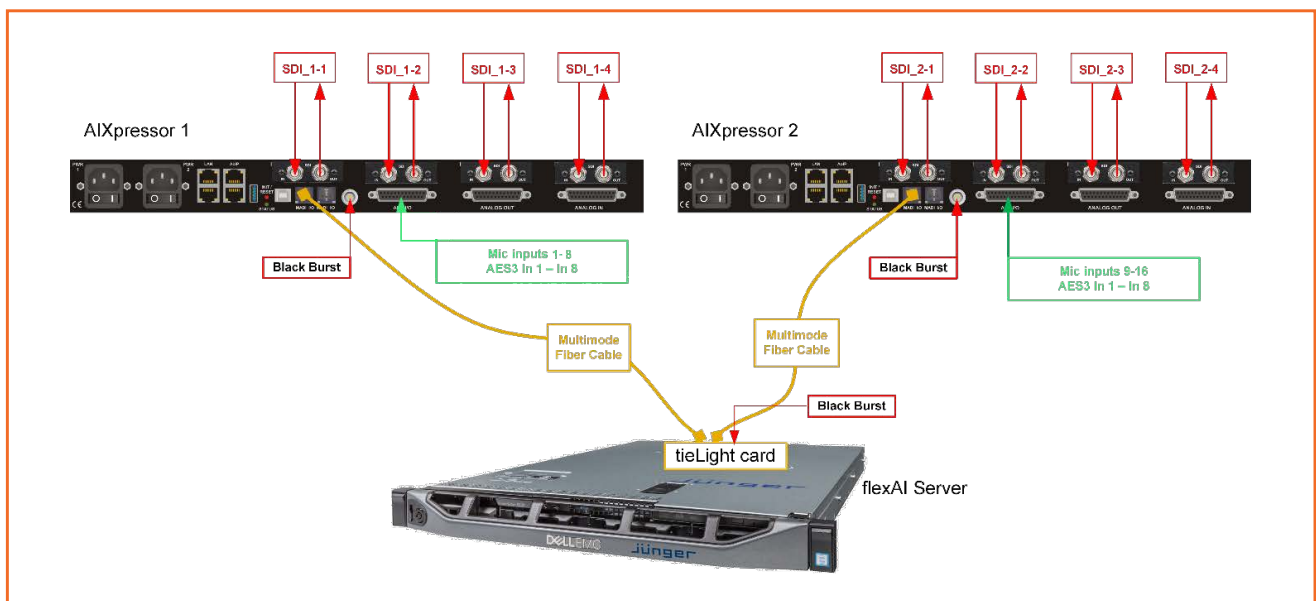
Our R&D team developed an entirely new audio processing infrastructure platform named flexAI. With flexAI, new tools and applications can be created, similar to plugins in a traditional DAW. This concept of software defined products enables us to create user-specific audio solutions without considering the hardware as a primary factor. All flexAI based applications can run on the AIXpressor and Jünger Audio's range of flexAI audio processing servers, with virtualized solutions coming in the future.

Smart operation/ Eco-friendly



Cascading Made Simple

The AIXpressor is a fully featured stand-alone audio processor which was designed with scalability in mind. Not only in terms of features and upgrades, but also in participating in larger systems. AIXpressor and flexAI server devices can become part of a processing array to provide distributed processing or load balancing and allow for high-channel count applications. To exchange audio and data between participants of a spanned installation, we developed tieLight as a multichannel, low latency point-to-point connection for cascading several devices. One optical tieLight interface is capable of transporting up to 1024 audio channels in each direction without introducing relevant latency.



Smart Operation

Following Jünger Audio's tradition of comprehensive remote control and automation, all functionality is operated from a completely new designed web interface.

Eco and Budget Friendly

Considering its processing power and capabilities, AIXpressor is low on power consumption and helps reduce the carbon footprint of your facility. With its high efficiency redundant power supplies, AIXpressor is a processing power house without wasting power.



**Elegant
functionality**

Specifications

The base AIXpressor unit supports audio interface functions. Audio processing is optional, and is added via software license keys. Software license keys can be installed in the field.

Analog I/O

- User selectable 8-ch analog input, or 4-ch analog input / 4-ch analog output via a DB-25 connector. Analog I/O is +4 dBu, balanced, DB-25 connector wired to the TASCAM® standard.
- 8-ch analog output via a DB-25 connector. Analog outputs are +4 dBu, balanced, DB-25 connector wired to the TASCAM standard.

AES3 I/O

- User selectable 4 stereo pairs input / 4 output, or 2 inputs / 6 outputs. AES3 I/O connections are balanced, 110 Ohms, DB-25 connector wired to the AES59 standard.
- Input sampling rate converters (individually switchable for each stereo pair)

SFP slot

- 2 x SFP slots, capable of supporting either 64-ch MADI or 1024-ch tieLight™ interfaces when populated with SFP modules (sold separately)

MADI I/O

- Up to two 64-ch MADI I/O are supported via SFP modules (sold separately). Mutually exclusive with tieLight™ interfaces
- Single or multi-mode fiber interfaces or micro-BNC available

tieLight™

- Up to two proprietary 1024-ch tieLight™ interfaces supported via SFP modules (sold separately). Mutually exclusive with MADI interfaces.
- Single or multi-mode fiber interfaces available

Fully-featured stand-alone audio processor



Audio over IP (AoIP)

- Ethernet ports supporting bi-directional Livewire+ audio, AES67 I/O, and SMPTE ST 2110-30 and -31.
- ST 2022-7 redundancy

Optional I/O Interfaces

Four option card slots are supported in the AIXpressor.

Available option cards include:

- SDI I/O (3G/HD/SD)
- 4-ch Analog I/O
- 8-ch AES/EBU I/O
- 64-ch Audinate Dante™
- 64-ch MADI I/O

*Option cards should be ordered with the unit and are installed at the factory

Reference/Sync

- 48kHz reference via AES3, MADI, PTP or external Sync Input
- Sync Input (75 ohm, internally terminated BNC connector) handles Word clock, AES3/AES11, Black Burst, Tri-Level sync inputs,
- Sync from option cards (when installed); SDI, Dante

Sample Rate/Resolution/Frequency Response

- 48kHz, 24-bit, 5Hz - 24kHz

Control

- Remote control via standard web browser
- Ember+
- SNMP (monitoring)

Flexible audio processing. Unlimited possibilities.



Audio Processing

Audio processing is available as optional software modules. Processing options include:

- Program Processing, including Level Magic Loudness Processor
- Voice Processing
- Voice Over Mixing (stereo and 5.1) w/ mix-minus and output processing
- Upmixing
- GfK Watermarking
- Dolby E encoding / decoding
- MPEG-H 3D Audio Renderer
- MPEG-H 3D Audio Authoring

Ethernet

- Four Gigabit RJ-45 connections

Power

- Dual internal redundant auto-ranging power supplies
- 100-240 VAC, 50/60 Hz, 95W maximum total

Dimensions and Weight

- 19" W x 17.5" D x 1.75" H (approximately 48,2 x 44,4 x 4,5 cm)
- Net weight: Approximately 7.7 lbs (3,5 kg)
- Approximate shipping weight 11 lbs (5 kg)

Regulatory

- North America - CE tested and compliant with UL-approved power supplies
- Europe - Complies with European Union Directive 2011/65/EU on the restriction of use of certain hazardous substances in electrical and electronic equipment (RoHS 2 and WEEE)

Warranty

- Standard Telos Alliance 2-year limited parts and labor

Jünger Audio is a brand of woks audio GmbH. Telos Alliance is the world-wide distributor of woks audio products.
Livewire+ is a trademark of the Telos Alliance. Audinate® is a registered trademark of Audinate Pty Ltd. Dante® is a registered trademark of Audinate Pty Ltd.
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