Front and Rear Panel

Front Panel



The AIXpressor front panel provides direct access to the following connections and controls:

- **USB:** USB 3.0 Type A connector for removable storage and other supported USB devices
- **Headphones:** 6.3 mm (1/4") stereo headphone output
- **Display:** 1440 × 240 TFT touch display for local operation and status information

Rear Panel



The rear panel provides power, network, synchronization, audio I/O, and expansion connections.

Power

- **Redundant Power Supplies:** Two auto-ranging mains inputs with individual power switches
- The two power supplies operate redundantly and share the system load during normal operation.

For maximum redundancy, connect the two power supplies to independent mains circuits as described in the **Power** section.

Network

- **Ethernet:** Four Gigabit Ethernet RJ45 ports for control, management, and Audio over IP
- **LAN 3 and LAN 4** are internally connected through an integrated network switch.

The assignment of the network ports depends on the system and AoIP configuration.

USB and Service

- **USB Type A:** One USB 3.0 Type A connector
- **USB Type B:** One USB 2.0 Type B connector; currently unused
- **Status LED:** Provides a general indication of the system state. Green indicates normal operation.
- **Init / Reset:** Service function intended for use in consultation with Jünger Audio support.

MADI / tieLight

Two SFP cages provide the built-in **MADI / tieLight** interfaces.

The operating mode of each interface is selected in the software. MADI and tieLight require different SFP module types.

> Depending on the installed module, MADI connections can be provided as optical single-mode, optical multi-mode, or **coaxial BNC** interfaces.

External Synchronization

A 75 Ω BNC connector provides the external synchronization input.

Supported synchronization formats include:

- Word Clock
- AES3 / AES11
- Black Burst
- Tri-Level Sync

AES3 I/O

The built-in AES3 interface uses a 25-pin D-Sub female connector.

It can be configured as:

- **8 AES3 inputs / 8 AES3 outputs**, or
- **4 AES3 inputs / 12 AES3 outputs**

AES3 is also commonly referred to as **AES/EBU**.

Analog I/O

The built-in analog interfaces use two 25-pin D-Sub female connectors:

- One connector provides **8 balanced analog outputs**.
- The second connector provides **8 balanced analog inputs**, or can be configured as **4 balanced inputs / 4 balanced outputs**.

This allows the complete analog interface to operate as either:

- **8 inputs / 8 outputs**, or
- **4 inputs / 12 outputs**

Expansion Slots

AIXpressor provides four interface expansion slots, **IF 1 – IF 4**, for optional interface boards.

Each slot supports up to **64 bidirectional audio channels**, depending on the installed interface module.

Available expansion modules include interfaces for applications such as SDI, MADI, Dante, AES3, analog audio, and microphone inputs.

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