JOYNED | AUDIO. NETWORK. TECHNOLOGY.

Unlock your system's network capabilities
The simplified adoption of Milan® and OCA

MILAN® | OCA AES70 OPEN CONTROL ARCHITECTURE

Do you want to innovate your audio products?

Enable AVB/Milan® and OCA protocols in your products and benefit from:

- High audio quality
- High reliability
- Next-gen system control and flexibility

Dependencies will put your business to risk.

Proprietary solutions limit the freedom of proAV manufacturers to design good products. They get trapped in dependencies and supply chain issues.

We work for democratizing network technology in the AV industry.

JOYNED is committed to open standards as the sustainable vehicle for a healthy and innovative network ecosystem.

We are working to provide vendor-agnostic fully-functional solutions in close collaboration with manufacturers, SaaS providers and brands.

JOYNED Audio Network SDK

The simplified adoption of audio network open standards

- Get design support for your networked products
- License Software from JOYNED
- Deliver innovative, future-proof products

www.joyned.at

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Audio Network SDK

This Software Development Kit enables Audio Network technology for professional AV products.

The required hardware components were carefully selected to provide good performance while keeping the cost in a competitive range.

Easy integration of the software and hardware components allows for a quick time to market.

Combining this with open standards and a scalable license model makes it the platform for future-proof systems.

Features

- Fully AVB/Milan® compliant.
- Enhanced control capabilities OSC, OCA (AES70) integrated into the same chip.
- API for vendor-specific DSP on the same chip
- Ready-to-use example applications.
- Evaluation boards.
- Fully automated toolchain.

Technical Data

Supported microcontrollers	XMOS XE216, XMOS XE232
Total input channels	32 channels
Total output channels	32 channels
Input streams	4 Inputs
Output streams	4 outputs
Sample rates	48/96/192kHz
Link speed	100MBit, 1GBit
Input/Output formats	I2S, SPDIF, AES3, ADAT
Protocols	AVB/Milan™, OCA, OSC

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Own your technology

Strong dependencies on core technologies can put your business to risk. That's a hard lesson to learn.
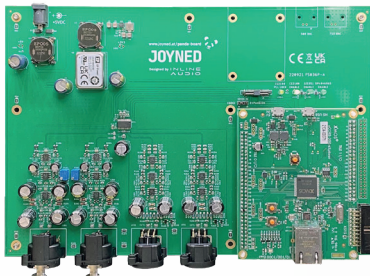
JOYNED will help you integrate open standard network technologies while you allocate your resources to provide end-users with your best products.

Benefit from our Automated Test Tools

Minimize maintenance efforts and human errors. Get updated reports directly on your screen to speed up QA, debugging and FW updates.

Audio Network Evaluation Board

A valuable, cost-effective tool to test and evaluate your product designs.

- AVB/Milan®
- OCA/AES70
- 2 analog Inputs
- 2 analog Outputs
- Interface for optional extension cards

Use Cases

Format Converters

Reference designs ready for you:
- ADAT, SPDIF, AES3
- Microphone / Instrument preamps
- Headphone amplifiers
- Digital-to-Analog converters…

Networked Microphones

New product concepts:

Multi-channel transmission on a single network cable for immersive recordings.

Remotel monitoring and control of the input signal chain of multiple sources in the network.

PoE Loudspeakers

Optimized loudspeakers:

Combine audio transport, signal processing and remote control in a single chip.

Reduce power consumption, and maximize the power budget for the acoustical output.