

DL-02/04

2 x 2 / 4 x 4 AES67 + DSP Network Module

Ideal for AES67 Network Audio

- Cost-effective small-channel AES67 Network module.
- High-performance, low-latency uncompressed audio over IP
- Compatible and interoperable with thousands of AES67 devices.
- Real-time control of routing, latency, DSP, and monitoring each device via DIGISYN LINK3 or Allonis Http MyServer6.
- Powerful and Customizable DSP for every input and output.

Fully Open API for Easy Integration

Integrate DIGISYN LINK's flexibility, powerful DSP, and simplicity into your products to inspire creativity. The DL-02/04 series supports AES67 features like auto-discovery, label-based routing, extensive DSP, and plug-and-play operation. Compatible with standard Ethernet, it offers exceptional DSP audio performance. The free DIGISYN LINK3 software provides easy setup for DL modules with AES67/RAVENNA integration.

Compact & Powerful Chip

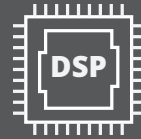
The DIGISYN LINK DL-02 / 04 series integrates AES67 into designs with simple audio interfaces and rich settings. Despite its compact size, it offers comprehensive tools and options. Using an I²S interface, it connects directly to audio components like speakers and microphones, meeting high-quality network audio standards and serving as a master clock.

It combines AES67 / DIGISYN LINK / RAVENNA technologies with 16/24/32-bit depth, providing DSP functions like EQ, FIR, delay, and compression. Its onboard clock ensures low jitter and stable audio synchronization.

The RMII Ethernet interface supports cost-effective Ethernet PHY and PoE designs. The DL series offers multiple control ports, including SPI and UART, for control via DIGISYN LINK3 software or independent packet bridging.

AES67

AES67 Protocol



Extensive DSP

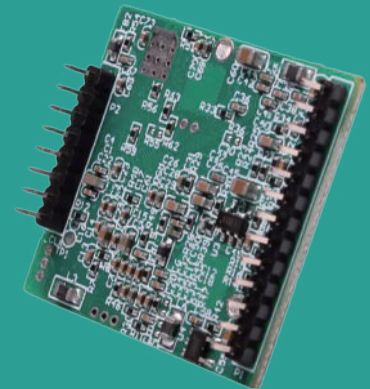


RAVENNA

Partner



DL-02/04 Front




DL-02/04 Back

Key Features

- Low latency down to 1ms, lossless audio, supports up to 192kHz sampling rate
- Using DIGISYN VSC AES67 virtual sound card, assign 64 PC channels to all DL-02/04 audio devices on the local network.
- Supports optional DSP: EQ, feedback suppression, FIR, echo cancellation, noise reduction, AGC, high/low cut, auto-mixing, delay, compression, expansion, etc.


 SndNetwork Co., Ltd.

 17F Nansha International Talent Port,
167 Haibin road, Guangzhou ,China


 www.digisynthetic.com

 Market@digisynthetic.com


Application Cases




Headphone receiver




Amplifier



Active speaker



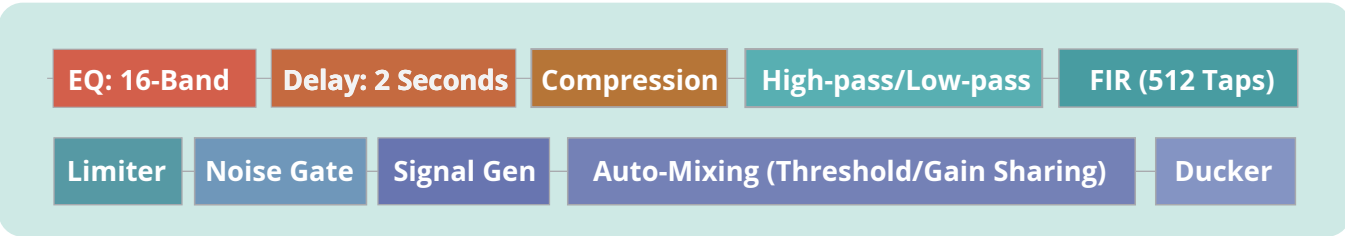
Microphone



Microphone receiver

- DL-02 offers **DIGISYN LINK / RAVENNA** interfaces for network audio modules supporting 2 x 2 channels at 48kHz, 96kHz, and 192kHz sample rates.
- DL-04 provides **DIGISYN LINK / RAVENNA** interfaces for network audio modules supporting 4 x 4 channels at 48kHz, 96kHz, and 192kHz sample rates.

Optional DSP Functions



Technical Specifications

Audio Features	
Sampling Rate	48 / 96 / 192 kHz
Audio I/O Channels (48kHz)	Up to 4 x 4 channels
Audio I/O Channels (96kHz)	Up to 4 x 4 channels
Audio I/O Channels (192kHz)	Up to 4 x 4 channels
Audio Stream Input/Output	Up to 4 x 4 audio streams
Digital Audio Format	I ² S
Audio Transmission Format	AES67, DIGISYN LINK , RAVENNA network audio
Bit Depth	16, 24, or 32 bits per sample
Clock	Onboard word clock or external word clock
DSP Functions	EQ, delay, high/low pass, FIR, limiting, auto-mixing, etc.
Hardware	
Dimensions	2.8cm x 3cm
Clock	High-quality, low-jitter onboard clock
Physical Connectors	2.0mm pin header
Power Supply	3.3V DC
Interfaces	
Control Interfaces	UART
Network	Ethernet PHY (MDI)