

DL-128DT8-V5i AUDIO DIGITAL SIGNAL PROCESSOR



Overview

Datalux DL-128DT8-V5i 12×8 Audio Digital Signal Processor is a high-performance, professional-grade audio processing solution designed for conferencing, training, and presentation environments that demand crystal-clear communication and seamless integration with modern collaboration platforms.

The Datalux DL-128DT8-V5i Audio DSP featuring 12 mono mic/line inputs and 8 outputs with Audio Expansion and USB audio interface, the DSP supports acoustic echo cancellation (AEC) on all microphone channels, ensuring intelligible audio even in challenging acoustic spaces. With +48 V phantom power on up to 8 channels, it supports a wide range of professional condenser microphones.

The built-in 24-bit/48 kHz A/D and D/A converters deliver pristine audio quality with a wide frequency response (20 Hz–20 kHz) and a high signal-to-noise ratio (>107 dB). An extensive DSP toolkit—including automatic mixing, parametric equalization, feedback suppression, high/low pass filters, levelers, limiters, duckers, and delays—enables precise tuning for any environment.

For digital integration, the processor features USB audio with up to 8 configurable channels, being Microsoft Teams Rooms and Zoom Rooms certified DSP making it ideal for Microsoft Teams and Zoom Rooms meeting requirements. Ethernet, USB, and RS-232 interfaces ensure flexible control and monitoring options, while comprehensive security protocols (HTTPS, SSH, IEEE 802.1X) safeguard network-connected installations.

Designed for reliability, the DSP offers fanless cooling for silent operation and field-upgradable firmware for future-proofing.

Whether deployed in a boardroom, training center, lecture hall, or command-and-control environment, this 12×8 DSP delivers the flexibility, audio quality, and integration features needed for today's AV and IT ecosystems.

Applications

- ✓ Conference Rooms and
- ✓ Boardrooms Lecture Halls and
- ✓ Training Centers Auditoriums and
- ✓ Event Spaces Houses of Worship
- ✓ Broadcast and Media Production

DL-128DT8-V5 DIGITAL SIGNAL PROCESSOR

Technical Parameter

Specification	Details
Audio Inputs	12 x mono mic/line inputs with AEC (Acoustic Echo Cancellation). +48V Phantom power available on 8 channels.
Audio Outputs	8 x mono balanced/unbalanced line level outputs
Phantom Power	+48V phantom power on 8 inputs
AEC Tail Length	>200 ms
A/D & D/A Conversion	24-bit/48 kHz analog-to-digital and digital-to-analog conversion
Processing Elements	Standard, automatic, and matrix mixers; parametric EQ; feedback suppressor; leveler; limiter; ducker; delays; AEC; High pass Filter (HPF); Low pass Filter (LPF)
Signal to Noise Ratio	>107 dB at maximum output
Frequency Response	20 Hz to 20 kHz
CMRR	>60 dB
Firmware Upgrade	Field-upgradable firmware via USB or Ethernet
Security Features	User authentication, HTTPS, SSH, IEEE 802.1X network access control
THD + Noise	<0.02%, 20 Hz to 20 kHz
USB Audio	Up to 8 configurable channels of USB audio support
Digital I/O	8 x digital inputs (for mic muting, activation, preset recall); 8 digital outputs for LED feedback (5V)
Ethernet Data Rate	10/100/1000 Base-T (full/half-duplex)
Audio Networking (Optional)	Support for Dante / AES67 audio networking for expansion
Ethernet Protocols	HTTPS, ICMP, ARP, IEEE 802.1X, IP, Telnet, SSH, TCP, DHCP
Indicators	Front panel LED indicators for signal and clip on all inputs and outputs
Event Scheduling	Internal event scheduler for automated presets and routing changes
Backup & Restore	Configuration backup and restore via USB or network
Monitoring & Control Interfaces	USB, RS-232, Ethernet
Compliance	CE, FCC, RoHS
Power Supply	100–240 VAC, 50–60 Hz
Power Consumption	≤50 W (typical)
Operating Temperature	0°C to +50°C
Storage Temperature	–20°C to +70°C
Operating Humidity	10% to 90% RH, non-condensing
Cooling	Fanless design
Dimensions (W × D × H)	Approx. 482 mm × 300 mm × 44 mm (1U rack-mountable)
Weight	≤5 kg