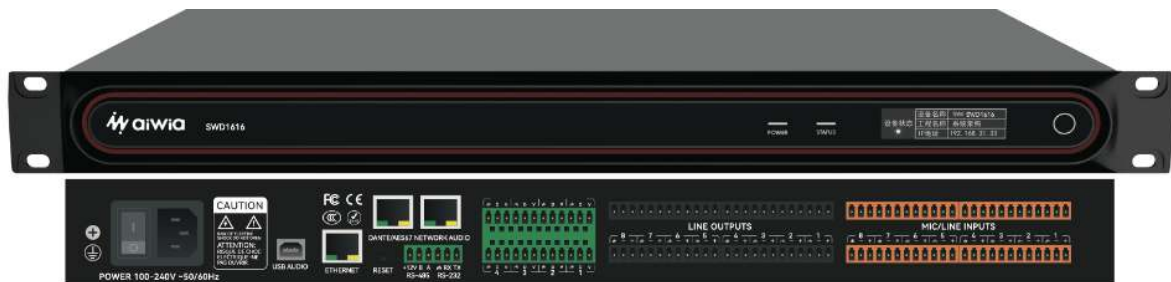




DATA SHEET

Fixed I/O Digital Audio Processor SWD-1616



The SWD series digital audio processor is aiwia's latest product, offering powerful processing capabilities and exceptional cost-effectiveness. This series showcases a modern design aesthetic, characterized by high-quality industrial design that highlights the practicality of aiwia's audio system products.

The processor is operated through aiwia's unified processing platform software, which includes a comprehensive debugging management interface. It features flexible and diverse processing modules, an open architecture for customizable audio links, and a graphical user control interface that can be tailored to individual needs. This unified interface allows users to easily control, set, and manage various parameters across the entire audio system, maximizing the processing capabilities of the thermal computing system.

Each SWD professional network digital audio processor is equipped with 16 mic/line analog audio inputs that support 48V phantom power, 16 analog audio outputs, and 64×64 Dante audio networking, which is compatible with AES67. Additionally, it features 6 assignable independent channel AEC processing and includes a 2x2 USB audio interface for connecting to computers for software video conferencing applications. Furthermore, a single unit can support up to 32 analog channels and 64×64 Dante network channels, making it suitable for a wide range of audio system processing applications.

- Independent intellectual property rights
- Two 1GHz high-performance chips
- 16 mic/line input, 16 output analog interfaces
- 64×64 Dante network channels
- Easily configurable GUI
- AEC: Supports 6 channels routable independent AEC processing
- 2x2 USB audio interface for connecting to computers
- High quality 24-bit A/D and D/A converters
- 8-way GPIO
- RS-232, RS-485 serial port

SWD-1616

Type:	Fixed I/O DSP
Network Channel:	64x64 Dante audio channels
Analog Channels:	16 mic/line input, 16 line output
USB Channels:	1 USB-B interface, channels 2x2
AEC module:	Support 6 routable AEC channels
Dynamic Range:	115dB
Frequency Response ($\pm 0.3\text{dB}$):	20Hz-20kHz
Total Harmonic Distortion (THD+N):	<0.003% @ 4dBu
Channel Crosstalk:	108dB
Maximum input level:	+18dBu
Maximum gain:	48dB
Sampling rate/Resolution:	48KHz /24bit

Controls and Indicators

Front Panel Controls:	Touch information control buttons
Front Panel Indicators:	Power light, Status light
Information screen:	2.08-inch flip display

Rear panel connection ports

RS232/485:	6Pin 3.81mm Phoenix
GPIO:	4x4
Dante Primary:	RJ45 1000Mbps
Dante Secondary:	RJ45 1000Mbps
Control port:	aiwia manager (software), control communications
AC main power supply:	IEC connector 220VAC - 240VAC, 50Hz
Operating temperature range:	0 ~ 45 °C
Humidity:	85% relative humidity maximum
Compliance:	CCC CE RoHS FCC

*aiwia reserves the final right of interpretation for this information. The technical parameters of related products are subject to change without prior notice.

