

DS-QAPPR1-N Network Audio Processor



- Visualized interaction: With the 3-inch high-definition display screen and jog dial button, you can easily control and view device information, including device IP address, device ID, system version, custom API type settings, number of access audio channels, audio channel exception monitoring, backup device address, USB status, etc.
- Network audio channels: Support 8 × 8 network audio channels
- Analog audio channels: Support optional 8 × 8 analog audio channels, with an additional 8 flexible custom channels (custom input/output channels)
- Digital audio transmission: Full series AES67 network transmission solution and compatible with Dante protocol for integration into ecological product solutions
- Hardware interfaces: 1 RJ45 interface for network audio transmission and control/backup; 24 channels (8 × 8 × 8) analog interfaces; 8 GPIO ports; 1 RS-485; 1 RS-232 for integration control / video tracking function; 1 USB (Type A) for recording audio; 1 USB (Type C) for sound card function. The exterior interface is color-coded by type
- Intelligent algorithm: 12-band PEQ, high-pass and low-pass filter, noise gate, compressor, expander, 31-band GEQ, AGC, AEC, ANS, feedback suppressor, ducking, matrix mixing, auto-mixing, delay, phase inverter, etc.
- Application function: Support master/slave hot backup, recording/playback, audio card, speech-to-text, remote meeting, video tracking, etc.
- Platform management: perform unified management of device configuration, management, monitoring, maintenance, and audio adjustment via the Audio Assistant client

▪ Specification

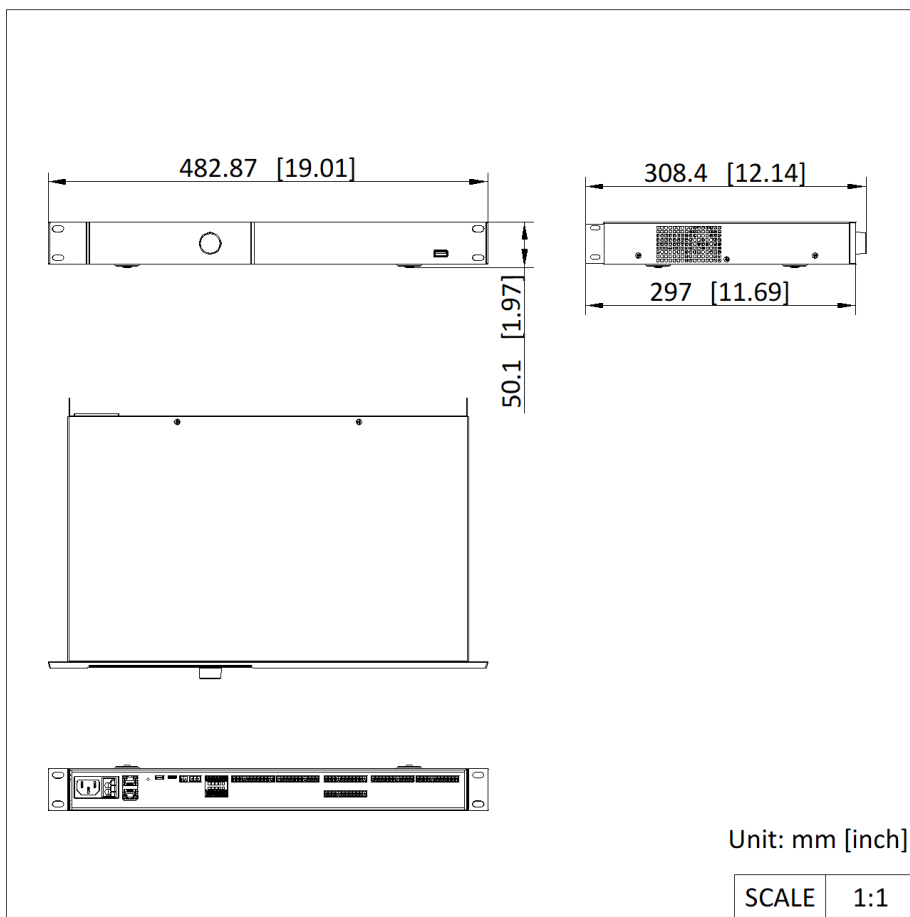
Function	
Protection Function	Overheat protection, overvoltage protection, undervoltage protection, overcurrent protection, and short-circuit protection
Processor Type	Sampling Frequency: 48 kHz, DSP Processor: 64-bit, A/D Conversion: 32-bit, D/A Conversion: 24-bit
Input Channel Function	Volume Control (VOLUME), Delay (DELAY), High-Pass Filter (HPF), Low-Pass Filter (LPF), Parametric Equalizer (PEQ), Compressor (COMP), Noise Gate (NOISEGATE), Expander (EXP), Automatic Gain Control (AGC), Howling Suppression(HS)
Output Channel Function	Volume Control (VOLUME), Delay (DELAY), High-Pass Filter (HPF), Low-Pass Filter (LPF), Parametric Equalizer (PEQ), Compressor (COMP), Expander (EXP), 31-band Graphic Equalizer (GEQ), Frequency Divider (FD), Inverter (INVERT)
Network	
Network Protocol	AES67, TCP/IP, ICMP, HTTP, HTTPS, DNS, RTP, RTSP, RTCP, NTP, QoS, UDP, SSL/TLS, IEEE1588
Interface Protocol (API)	OTAP
Network Security	Password protection, complicated password, HTTPS encryption, basic and digest authentication for HTTP/HTTPS, , security audit log, TLS 1.2, TLS 1.3
Client	<p>Recommended Running Environment for Audio Assistant Tool:</p> <ul style="list-style-type: none"> ● Operating System: Windows(R) 10 (recommended), compatible with Windows(R) 7 / Windows(R) 8.1 / Windows(R) 11. ● CPU: Intel(R) i3-9100 @4.2 GHz or above ● RAM: 4 GB or above ● Graphics Card: GT1030 D5 ● HDD: 20 GB ● Display: 1920 × 1080 or above
Data Security	Support secure boot
Audio	
Rated Power	75 W
Frequency Response	20 Hz to 20 kHz ±0.3 dB
Phantom Power	48 V Phantom Power
Maximum Output Level	21 dBu
System Delay	3 ms
Total Harmonic Distortion (THD)	<0.0015%@10 dBu input
Dynamic Range	110 dB@21 dBu 110 dB@+10 dBu 110 dB@0 dBu 103 dB@-10 dBu
Input Channel	Analog Input Channels: 8 + 8 (Customizable) Network Input Channels: 8
Output Channel	Analog Output Channel: 8 + 8 (Customizable) Network Output Channels: 8
Input Range	21 dBu, +10 dBu, -10 dBu, -30 dBu

Signal-to-Noise Ratio (SNR)	110 dB@21 dBu 110 dB@+10 dBu 110 dB@0 dBu 103 dB@-10 dBu
Channel Separation	108 dB@1 kHz
Chassis Compatibility Height	1U
Analog-to-Digital Dynamic Range	110 dB
Digital-to-Analog Dynamic Range	112 dB
Input-to-Output Dynamic Range	Output Dynamic Range: 112 dB@ 21 dBu, 108 dB@ 2.2 dBu
Common-Mode Rejection Ratio (CMRR)	>70 dB
Audio Signal Processing	Automatic Mixing (AutoMix), Echo Cancellation (AEC), Automatic Noise Suppression (ANS), Priority Ducking (PD), Mixing (MIX)
Interface	
Device Interface	2 × RJ45 interfaces, 1 × RS-232 interface, 1 × RS-485 interface, 8 × GPIO control interfaces, 2 × USB interfaces
Button	Jog Dial
General	
Power	100 VAC to 240 VAC, 50 Hz/60 Hz
Dimension	Without Package: 482.87 × 50.1 × 297 mm (19.01" × 1.97" × 11.69") With Package: 570 × 138 × 410 mm (22.44" × 5.43" × 16.14")
Weight	Without Package: 4.1 kg (9.04 lb.) With Package: 5.5 kg (12.13 lb.)
Operating Condition	-10 °C to 50 °C (14 °F to 122 °F). Humidity 90% or less (non-condensing)
Installation	Cabinet Installation
Display Screen	3-Inch Display Screen

▪ Available Model

DS-QAPPR1-N

▪ Dimension



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