



Professional Dante®-enabled 2×35W / 70W Class-D amplifier with integrated DSP, analog I/O, and AES67 compatibility.

The AMP70DX from Norrd® is a professional two-channel Class D amplifier with integrated Dante® digital audio networking. Delivering 2x 35 stereo or 1x 70W mono at both 4Ω and 8Ω, this compact amplifier combines Dante® 2x2 I/O with AES67 compatibility, balanced/unbalanced analog inputs with microphone preamp and 48V phantom power, and cascading outputs for system expansion. The onboard DSP provides 8-band parametric EQ, gain control, ducking, mixing, matrixing, and delay up to 50ms.

KEY FEATURES

Audio Connectivity

- Dante® 2x2 digital audio I/O with AES67 support
- Balanced and unbalanced analog input/output for cascading
- Microphone preamp with 48V phantom power for condenser microphones
- Multiple output formats: Dante® digital, analog line level, and amplified speaker outputs

DSP Audio Processing

- Comprehensive DSP engine with gain, ducking, mixing, and matrixing
- 8-band parametric EQ with ±15 dB gain adjustment per band
- Audio delay up to 50 ms for time alignment and acoustic correction
- Flexible volume control and signal routing

Amplification

- Advanced 70 W Class-D amplifier technology
- Dual-channel stereo: 2 × 35 W @ 4Ω / 8Ω
- Bridged mono: 1 × 70 W @ 4Ω / 8Ω
- Consistent power delivery regardless of speaker impedance

Power & Flexibility

- Dual power input: 36 V / 2.5 A DC or PoE++ (Type 4 Class 8 through Type 2 Class 4)
- Power-adaptive output with automatic gain adjustment based on available power
- Auto standby mode with adjustable timer (0–100 minutes) and signal sensing
- Local 5–12 V trigger input for remote amplifier control

Network & Control

- Dante® audio support: 44.1 kHz, 48 kHz, 88.2 kHz, and 96 kHz @ 16/24-bit
- Selectable Dante® latency: 2 ms, 3 ms, 4 ms, 5 ms, or 10 ms
- Integrated web GUI for configuration, control, and monitoring
- Network control function for managing multiple slave devices from a designated host
- Control via front panel buttons, RS-232, or TCP/IP

AUDIO PERFORMANCE	
Output Power	2x35W @ 4/8Ω Stereo, 1x70W @ 4/8Ω Mono
Amplifier Type	Class D
Frequency Response	20Hz to 20kHz (±0.5dB)
Dynamic Range	>100dB @ 0dBu, 1kHz A-weighted
Audio S/N Ratio	>100dB @ 0dBu, 1kHz A-weighted
THD+N	<0.01% @ +4dBu, 1kHz
Audio Output Delay	<1ms
AUDIO FORMATS	
Dante®	Dante/AES67 digital audio in/out, PCM 2CH 44.1–96kHz, 16/24-bit
Line Input	Analog audio, Balanced/unbalanced, Max input level 24dBu
Mic Input	Analog audio, Balanced/unbalanced, Min input level -35dBV
Line Output	Analog audio, Balanced/unbalanced, Max output level 2V RMS
Amplifier Output	Analog audio, Balanced 2CH, Max output power 2x35W @ 4/8Ω Stereo, 1x70W @ 4/8Ω Mono
LINE/MIC INPUT AUDIO	
Input Impedance	20kΩ balanced
	10kΩ unbalanced
Input Level	Max 24dBu (12.28Vrms) @ balanced line
	Max 18dBu (6.14Vrms) @ unbalanced line
	Min -35dBV (17.78mVrms) @ balanced mic
LINE OUTPUT AUDIO	
Output Impedance	600Ω balanced, 300Ω unbalanced
Output Level	Max 2V RMS @ balanced audio
	Max 2V RMS @ unbalanced audio
NETWORK	
Network Bandwidth	100M
Audio Latency	Configurable Dante® device latency: 2, 3, 4, 5 or 10ms
	Configurable AMP/analogue output latency: 0–50ms
Transmission Distance	328ft / 100m (CAT6/6A/7)
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge), IEC 61000-4-2: ±4kV (Contact discharge)
CONNECTIONS	
Input	1x MIC/LINE IN [6pin-3.5mm phoenix connector]
Output	1x LINE OUT [6pin-3.5mm phoenix connector]
	1x 4/8Ω AMP OUT [4pin-5.08mm locking phoenix connector]
Control	1x RS-232 [3pin-3.5mm phoenix connector, API commands control]
	1x TRIGGER [2pin-3.5mm phoenix connector, high/low level configurable]
	1x DAN TE/IP [RJ45 connector, PoE+/PD (Class 8 IEEE 802.3bt)]
POWER	
Power Supply	36V/2.5A 4PIN Locking Power Supply
	PoE++ Type 4 Class 8
Power Consumption (Max)	94.6W (Test with 1k sine wave, amplifier output connected to 4Ω resistance)
POWER-DEPENDENT OUTPUT RATINGS	
36V/2.5A DC	2x 35W (stereo) /
PoE++ Type 4 Class 8	2x 25W (stereo) / 50W (mono)
PoE++ Type 4 Class 7	2x 20W (stereo) / 40W (mono)
PoE++ Type 3 Class 6	2x 15W (stereo) / 30W (mono)
PoE++ Type 3 Class 5	2x 10W (stereo) / 20W (mono)
PoE+ Type 2 Class 4	2x 5W (stereo) / 10W (mono)
MECHANICAL	
Housing	Metal Enclosure
Color	Black
Dimensions (W×D×H)	180mm × 118mm × 28mm
Weight	670g / 1.48 lbs
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Operating Humidity	20%–80% (relative humidity, non-condensing)
Storage Humidity	10%–90% (relative humidity, non-condensing)