NT2504
1000 Watt 4x4 Network DSP Power Amplifier

▸ 4-channel amplifier – 250 watts per channel
▸ 4 ohm and constant voltage models available (70V or 100V)
▸ 4-in x 4-out sophisticated matrix mixing makes routing easy

NT1304
520 Watt 4x4 Network DSP Power Amplifier

▸ 4-channel amplifier – 130 watts per channel
▸ 4 ohm and constant voltage models available (70V or 100V)
▸ 4-in x 4-out sophisticated matrix mixing makes routing easy

Overview

Phonic' NT series of Network Power Amplifiers provide intelligent processing and mixing in a compact, modular design all controlled remotely through Windows remote software. All routing and processing can be accessed through a simple and intuitive graphical user interface.
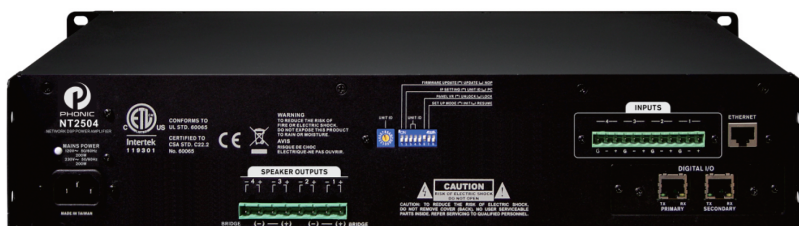
A single NT series network amplifier is equivalent to a complete rack of audio gear in a single unit. To that end, NT amps simplify installation and greatly minimize installation costs.

With numerous internal processes and flexible multi-source mixing, NT series amplifiers can be used alone or networked with multiple units.

Phonic engineers independently develop unique and versatile signal processors, including 4-band parametric EQs, compressor/limiters, and crossovers. These can be freely assigned to input and output mixes through the Phonic remote control software. The remote software also provides constant monitoring of system performance and temperature.

With 4 channel models available at various output wattages, the NT series is versatile. Whether for stadiums, auditoriums, restaurants, houses of worship, boardrooms, courtrooms or performance areas, there's undoubtedly an NT amplifier to suit your needs.

▸ Fully-featured DSP processing
▸ 10/100MB Ethernet for remote operation
▸ Intuitive user interface for Windows PCs
▸ 4x4 configurations available
▸ 4 line-level inputs through euroblock
▸ 24-bit AD/DA converters
▸ Internal sampling rate set at 48KHz
▸ Optional Dante networking (DT44)
▸ Input and output metering through software
▸ Password-protected user accounts

Dante Card Optional

System Specifications

Amp Circuitry	D
Input Sensitivity	1.42 Vrms
Distortion (SMPTE-IM)	<0.02%
Noise (Unweighted 20 Hz - 20 kHz below rated power)	107 dB
Damping Factor	>300 @ 8Ω
Frequency Response	20 Hz-20kHz +-1dB; -3dB: 5Hz-50kHz
Input Impedance	20 kΩ balanced; 10 kΩ Unbalanced
Cooling	Variable Speed Fans - front to rear flow
Indicators	–40dB,-6dB, -3dB, Clip/Prot, Bridge (one per 2-channel group), Power, Disable, Standby/Unlock, Protect
Front Panel	AC power switch & gain controls
Input	Euroblock Connectors
Output	Euroblock Connectors
Power Requirements (Region Dependent)	100 - 120VAC, 220 - 240VAC, 50/60Hz

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DSP Specifications

Function	Parameter	Range
Compressor / Limiter	Threshold	-50 dB to 0dB
	Ratio	1:1 to 20:1
	Attack / Release	1 ms to 8 sec
	Output Gain	0 to 18 dB
Delay	Delay Time (mS)	0.0 to 680.0 ms
	Delay Time (meters)	0.0 to 245.5
	Delay Time (feet)	0.0 to 805.4
	Temperature (C)	0° to 50°
	Temperature (F)	32° to 122°
4-band Equalizer	Type	BPF, Notch, Peak, HPF, High Shelf, Low Shelf
	Gain	-18 dB to +18kHz
	Frequency	20 Hz to 20 KHz
	Q	0.1 to 10
Crossover	HPF/LPF Type	Butterworth 12dB, 18dB, 24dB
	HPF/LPF Frequency	20 Hz to 20kHz

Remote Software

Each and every one of the signal processors ingrained in the NT series network amplifiers can be controlled using the included Windows software. This software is compatible with Windows XP, Windows Vista, Windows 7, Windows 8.1 and Windows 10.

Installation and setup is simple, connecting to the software through your network. Using a pre-determined IP address, you're able to then activate the unit and control it via the software.

A number of function tabs can be found to the top of the software. Each of these can be used to access different routing and setup features of the NT amplifier. The DSP tab offers flexible signal processing for the input and output mixes.

Available functions can all be found in the table to the left of this page. These include comprehensive compressors/limiters, delays, equalizers, and crossovers. Each has a wide array of user-adjustable parameters that can significantly improve the operation of these functions.

Initial setup may be overwhelming considering the sheer number of parameters you have to work with. Thankfully we offer a number of pre-defined programs that can be utilized to help make it easier. In addition to this, any settings you yourself make - and find to be substantially useful - can be saved in your own user-defined scenes.

Amplifier Specifications

	NT1304	NT2504
Low Z, Stereo Mode, all channels driven (RMS Power Ouput Per Channel)		
8Ω, 20Hz-20kHz 1%THD	80W	150W
4Ω, 20Hz-20kHz 1%THD	130W	250W
Low Z, Bridge Mode, all channels driven (RMS Power Output)		
8Ω, 20Hz-20kHz 1%THD	260W	500W
Distributed Output (RMS Power Output Per Channel)		
70V, 100V, 20Hz-20kHz 1%THD	130W	250W
Models Available	4Ω and 8Ω / 70.7V Constant Voltage / 100V Constant Voltage *Please consult your sales assistant for information on ordering the model that is best for your purposes*	

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Application

CLASSROOM / LECTURE ROOM

Interactive Whiteboard

AV AREA

RM Series

PA Speaker

Dynamic Microphones

PA Speaker

Wireless Microphones

AV AREA

3rd Party Controller

AMX
CRESTRON

DMP8800

CD Player

Wireless Mic Receiver

Laptop / Desktop

Router

NT2504

Link to other Classrooms / Areas

——→	**Speaker**
——→	**CAT5**
——→	**Audio Cable**
——→	**RS232**

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FITTING ROOMS

Ceiling Speakers

DEPARTMENT STORE

ENTRANCE

RM-4
RM-6E

Mic

Ceiling Speakers

CHECKOUT

OFFICE

NT2504

DMP8800

Control
Software

Router

CD Player

	Speaker Cable
	RJ-45 (or Remote)
	Audio Cable

NOTE: Speaker count can be expanded to suit requirements.

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