



NGTC-0404 Digital Signal Processor

The NGTC-0404 is a Dante[™] enabled digital signal processor with flexible I/O for the NEXGENTEC AUDIO distribution solution.

The NGTC-0404 is capable of simultaneously transmitting and receiving up to 64 channels of DanteTM audio (64 x 64) and has a completely flexible DSP design platform.

The NGTC-0404 can be easily interfaced with 3rd party control systems via the network. It can also be used with the NGTC-SDM, the software defined Dante[™] matrix and monitoring device to deliver a virtually unlimited audio matrix system.

The nexgentec DSP super modules enable efficient design and deployment of the NGTC audio network system, featuring the highest levels of functionality and performance.



Key Features

- 4 Analog inputs / 4 analog outputs
- Configurable signal processing
- Rich palette of processing and logic objects, nexgentec DSP super modules
- Dante[™] audio, 64 x 64 audio input / output channels per device
- LAN port for Dante[™]

- LAN port for control
- Informative front panel display
- 2 Control inputs and 4 logic outputs for GPIO integration
- Interface kit for third party control system integration

Power and Dimensions

Mains Voltage: Power Consumption: BTU Rating: Operation Temperature Range: Dimensions (H x W x D): Weight: PoE+ < 25.5 Watt < 85 BTU / hr 5° to 30°C 44 mm x 208 mm x 228 mm - 1/2 U 2.4 kg

nexgentec audio

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Technical Specifications

- Front Panel Led Indicators:
 - Analog Inputs:
- Mic/Line Inputs:
- Input Impedance:
- Maximum Input Level:
- CMRR:
- THD + Noise:
- A/D Latency:

• Analog Outputs:

- Maximum Output Level:
- Frequency Response:
- THD + Noise:
- Dynamic Range:
- Inpedance:
- D/A Latency:
- Control Ports:
- Control Input Voltage:
- Control Input Impedance:
- Logic Output Voltage:
- Logic Output Impedance:
- Logic Output Current:
- Watchdog Output:
- Opto Output Current:
- Withstanding Voltage:
- Series Impedance:
- Control Network:
- Maximum Cable Length:
- Digital Audio Bus:
- Maximum Cable Length:
- Maximum Number of Nodes:
- Latency per Node:
- Dante[™] Audio Network:
- Maximum Cable Length:

- signal present, LCD display, data activity 4 balanced
- nominal gain 0 dB, 12, 24, 44 or 54 dB with +/- 24 dB trim 8 k\Omega balanced, 4 k\Omega unbalanced
- + 23 dBu
- > 76 dB at 1 KHz
- < 94 dB, unweighted; 1 kHz @ + 22 dBu with 0 dB gain 0.28 ms

4 balanced

+ 24 dBu (+ 22.8 dBu into a 2 k Ω min. load) 20 Hz - 20 KHz (+ 0.5 dB / -1 dB) < 95 dB, unweighted; 1 kHz @ + 22 dBu with 0 dB gain > 117 dB, A - weighted 300 Ω balanced, 150 Ω unbalanced 0.60 ms

2 inputs and 4 outputs 0 to 4.5 v 4.7 k Ω to + 5 V (2 - wire mode), > 1 M Ω (3 - wire mode) 0 or + 5 V unloaded 440 Ω s 10 mA source, 60 mA sink

Phoenix / Combicon connector for failsafe control 14 mA maximum 80 V maximum (Off) 220 Ω (isolated) RJ45 Ethernet connector 100 m / 300 ft, category 5 / 6 / 7

1 x RJ45 Ethernet connectors 100 m / 300 ft, category 5e /6 / 7 60 4 (+/-1) Fs

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Recommendations

Use the PRCA phoenix to RCA converters for easy connection.

NGTC-PRCA-6	Phoenix to RCA interface input board
NGTC-PRCA-7	Phoenix to RCA interface output board