



NGTC-0404NX Digital Signal Processor

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

The NGTC-0404NX 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-0404NX 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
- Slot for one option card
- 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
- 8 x 8 USB audio interface

- Redundant Dante[™] ports (PRIM / SEC)
- LAN port for control
- RS232 port
- Informative front panel display
- 4 Control inputs and 8 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: 100 - 240 VAC, 50 / 60 Hz < 60 Watt < 200 BTU / hr 5° to 30°C 44 mm x 480 mm x 240 mm – 1 U 5.9 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 Ω balanced, 4 k Ω 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
- 4 inputs and 8 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 5 / 6 / 7 60 (+/-1) Fs
- 1 x RJ45 connectors 100 m / 300 ft, category 5 / 6 / 7

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