



NGTC-1616 Digital Signal Processor

The NGTC-1616 is a Dante[™] enabled digital signal processor with flexible I/O for the NEXGENTEC AUDIO distribution solution.

The NGTC-1616 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-1616 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.

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Key Features

- 16 Analog inputs / 16 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
- 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: 24 VDC, 1.9 A, External PSU included < 56 Watt < 191 BTU / hr 5° to 30°C 44 mm x 480 mm x 2401 mm – 1 U 4.1 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 16 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

16 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 4 (+/-1) Fs

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Recommendations

Use the PRCA Phoenix to RCA converters for easy connection.

NGTC-PRCA-6 NGTC-PRCA-7 NGTC-PRCA-8 Phoenix to RCA interface input board Phoenix to RCA interface output board Phoenix to RCA interface output inverted board