



NGTC-2000 Digital Signal Processor

The NGTC-2000 is a Dante™ enabled digital signal processor with flexible I/O for the nexgentec™ audio distribution solution.

The NGTC-2000 is capable of simultaneously transmitting and receiving up to 64 channels of Dante™ audio (64 x 64) and has a completely flexible DSP design platform.

The NGTC-2000 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 Versatile option card slots
- 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
- Redundant Dante™ ports (PRIM / SEC)
- LAN port for control
- RS232 port
- Informative front panel display
- 8 Logic inputs (or 4 analog control inputs) and 8 logic outputs
- Interface kit for third party control system integration

Power and Dimensions

Mains Voltage:	100 - 240 VAC, 50 / 60 Hz
Power Consumption:	< 45 VA
BTU Rating:	< 200 BTU / hr
Operation Temperature Range:	5° to 30°C
Dimensions (H x W x D):	480 mm x 241 mm x 43.7 mm – 1 U
Weight:	5.9 kg





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Technical Specifications

- Front Panel Led Indicators: signal present, LCD display, data activity
- Control Ports: 8 logic inputs and 8 logic outputs
- Control Input Voltage: 0 to 3.3 VDC
- Control Input Impedance: 4.7 k Ω to + 5 V (2 - wire mode), > 1 M Ω (3 - wire mode)
- Logic Output Voltage: 0 or + 5 V unloaded
- Logic Output Impedance: 440 Ω s
- Logic Output Current: 10 mA source, 60 mA sink

- Watchdog Output: Phoenix / Combicon connector for failsafe control
- Opto Output Current: 14 mA maximum
- Withstanding Voltage: 80 V maximum (Off)
- Series Impedance: 220 Ω (isolated)
- Control Network: RJ45 Ethernet connector
- Maximum Cable Length: 100 m / 300 ft, category 5 / 6 / 7

- Digital Audio Bus: 2 x RJ45 Ethernet connectors
- Maximum Cable Length: 100 m / 300 ft, category 5 / 6 / 7
- Maximum Number of Nodes: 60
- Latency per Node: 4 (+/-1) Fs

- Dante™ Audio Network: 2 x RJ45 connectors
- Maximum Cable Length: 100 m / 300 ft, category 5 / 6 / 7