

OMNITRONIC NAP-26 Audio processor

CobraNet(TM) audio network processor

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The article is no longer in our assortment.

Description:

The door to a faster future!

As it is provided with the CobraNetT technology, it is the solution for complex multi-zone installations: the NAP-26 audio processor. CobraNetT was developed by Cirrus Logic and is kind of a combination of software, hardware and network protocol, that allows uncompressed digital audio distribution in real-time, high quality and without any time lag - a respectively configured network can handle up to 3000 audio channels. Thereby the signals are transmitted over industry standard 100Base-T Ethernet networks. A fact, that can be very beneficial as computer networks (LAN), that are already existing, can be used. By doing so there is no need of running new cables and thus spending lots of money.

The NAP-26 audio processor is equipped with two analog input channels and six analog output channels and enables analog signals to transform into CobraNetT signals. Additionally, CobraNetT technology can carry asynchronous control data without conflict to the isochronous, conventional data (multicast). Moreover the transformed signals can be processed. Depending on the requirements, the signals of the separate channels can be transmuted via numerous filters and effects (delay, router, leveler, compressor, limiter, etc). Get connected to this brave new world!

CobraNet(TM) audio network technology

Developed by Peak Audio, CobraNet(TM) technology allows real-time uncompressed digital audio distribution over industry standard 100Base-T Ethernet networks. Based on the Ethernet-MAC-protocol, it is possible to reach an isochronous, i. e. a highly reliable datastream with very low latency and a bandwidth of 100 Mbit/s.

CobraNet(TM) technology allows the transport of isochronous datastreams required by audio and video applications in 10 and 100 MBit Ethernet networks where an upgrade to e.g. 1 GBit is always possible. Additionally, CobraNet(TM) technology can carry asynchronous control data without conflict to the isochronous data.

Logistic

EAN / GTIN: 4026397280760

Weight: 6,30 kg

Length: 0.53 m

Width: 0.43 m

Heigh: 0.17 m

Up to 64 channels (20 Bit/48 kHz) can be carried simultaneously over a category 5 cable. CobraNet(TM) currently supports a 48 kHz sampler frequency with a 16, 20, or 24 bitrate. A respectively configured network can handle up to 3000 audio channels. When using category 5 cables, a maximum cable length of 100 m should not be exceeded.

As CobraNet(TM) consists of standard Ethernet-components available in the IT retail business, high quality products can be bought at a competitive price.

CobraNet(TM) devices can coexist with networked computers, printers, etc. on a switched 100Base-T Ethernet network, however, a dedicated network infrastructure is strongly recommended.

Features:

- Processes 2 analog channels and 6 audio channels of the CobraNet(TM) signal
- 2 analog input channels (bal.)
- 6 analog output channels (bal.)
- Independent MCU control for roperation without a PC
- CobraNet(TM) and Ethernet connection port
- Transmission of up to 64 channels (20 bit/48 kHz) via category 5 cable
- 48 kHz sampler frequency with a bitrate of 20
- Maximum cable length 100 m (category 5 cables)
- The DSP can be controlled via a simple graphic operation software
- Incl. configuration software with the following functions:
- Gain adjustment of the input channels
- Delays: 5 ms, 10 ms, 20 ms, 50 ms, 100 ms
- Routers: 4 x 4, 8 x 8, 16 x 16
- Mixers: 4 x 1, 4 x 2, 4 x 4, 8 x 1, 8 x 2, 8 x 4, 8 x 8
- Dynamics: Levelers, Compressors, Limiters, Noise Gates, Expanders, Clippers
- Signal generator: sine, white noise
- Equalizers: parametric equalizes, graphic equalizes
- Filters: Highpass, Lowpass, Highpass Shelving, Lowpass Shelving
- Crossovers: 2-way, 3-way, 4-way
- Level meters: 1-way, 2-way, 4-way, 8-way
- Incl. mounting brackets for 483 mm rack installation (19") (1 U)

Technical specifications:

Power supply:	100-240 V AC, 50/60 Hz
Power consumption:	30,00 W
Dimensions:	Width: 43 cm Depth: 29,8 cm Height: 4,45 cm
Weight:	4,70 kg
DSP capability:	200 MIPS, 40 bit floating point
2 RJ-45 network connectors:	according to IEEE 802.3 standards
1 RS-232 connector:	type D (9 pins)
Network input channels:	6
Network output channels:	2
Analog audio inputs:	
Number of channels:	2 (XLR, bal.)
Sampler frequency:	48 kHz
Quantization resolution:	20 Bit
Frequency range:	20-20000 Hz, ± 0.2 dB
THD:	0.005 % (+4 dBu)
Dynamic range:	103 dBA
Input gain adjustment:	0-66 dBu

Maximum input level:	+21 dBu (bal.)
Input impedance:	20 kohms
Analog audio outputs:	
Number of channels:	6 (XLR, bal.)
Sampler frequency:	48 kHz
Quantization resolution:	20 bit
Frequency range:	20-20000 Hz, ± 0.2 dB
THD:	0.005 % (+4 dBu)
Dynamic range:	103 dBA
Maximum output level:	+21 dBu (bal.)
Output impedance:	100 ohms
Dimensions:	430 x 45 x 298 mm
	Rack installation with 1 U with brackets