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WorldNet Tokyo

The WorldNet Tokyo is a multi-algorithm, fully duplex, stereo audio ISDN codec offering all popular coding algorithms, including Standard 16 bit apt-X[™], Enhanced 16, 20 & 24 bit apt-X[™], MPEG 1 and 2 Layer II / Layer III (MP3), G.711, G.722 and MPEG 2 AAC. With this unique feature set, the WorldNet Tokyo guarantees connectivity to all established ISDN audio codecs.

In the past, broadcasters had to make difficult choices when deciding which ISDN codec to buy, as no single codec offered full compatibility between the various standards. The introduction of the WorldNet Tokyo addresses this issue, thus solving both compatibility and financial dilemmas in one single unit.

The WorldNet Tokyo ensures connection and synchronisation to all popular ISDN codecs, regardless if the unit is an APT codec such as the DSM100/Pro-Link, WorldNet Milano, DRT128 or BCF384 or whether it is a third party codec such as the Telos Zephyr or CCS CDQ Prima®.

A key feature of the WorldNet Tokyo is that it incorporates Standard and Enhanced apt-X™ compression algorithms. The apt-X[™] algorithm is the defacto standard across the professional audio industry and is in

daily use throughout the world delivering superior audio quality over countless networks. A real time digital audio data reduction system, Standard and Enhanced apt-X™ compresses audio samples by a factor of

4:1 with no perceptive audible degradation and a negligible coding delay of sub 2 milliseconds at 48kHz. Offering resilience to multiple coding, the apt-X™ algorithms overcome the problems associated with multiple psycho-acoustic passes of audio in the broadcast chain.

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WorldNet Tokyo offers key benefits for audio networking:

- Popular compression algorithms i.e. Standard apt-X[™], Enhanced 16, 20 & 24 bit apt-X™, G.711, G.722, MPEG Layer II, MPEG Layer III and AAC.
- MUCAS and J.52 Inverse Multiplexing bonding algorithms.
- Compatibility with all APT codecs i.e. WorldNet Milano, DSM100/Pro-Link, DRT128, BCF.
- Dual Destination i.e. simultaneous connection to separate destinations.
- Compatibility with CCS CDQ Prima®, RoadRunner, Telos Zephyr, Dialog 4 MusikTaxi, AETA or AEQ codecs.
- Independent Send/Receive modes.
- Bandwidths from 20Hz through to 22.5kHz offering AM, FM and DAB audio quality.
- Up to 4 x ISDN BRI i.e. 512kBit/s.
- Analog and AES/EBU Inputs / Outputs.
- AES/EBU Reference Input.
- RS232 Ancillary Data for RDS.
- 4 TTL Inputs/Outputs for remote control.
- LCD 128x 64
- Navigation keys.
- Headphone Outputs.
- Control via RS232, IP or Internet (http).



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WorldNet Tokyo

Technical Specification

Physical

Size Weight Power Supply Environmental Power Consumption

Interfaces

ISDN

Data Rates: X.21/V.35 Data Rates: Network IP Aux. Data Data Rates:

Digital Operation AES/EBU Sync In Analog Operation

TTL I/O Remote Control *SNMP

Audio

Sampling Frequencies Audio Bandwidth: Digital AES/EBU Analog Coding Algorithms

Bonding Algorithms A/D Converter Sample Rate Converter Compression Ratio

Coding Delay

Back Panel View

2U x 19" rack mount (88mm x 483mm x 270mm) 6.6Kg 90 – 250 VAC, 47-60Hz +5°C to +45°C <60W

S Bus Interface: 1, 2 or 4 RJ45 U Bus Interface: 1, 2 or 3 RJ45 64Kbit/s - 512Kbit/s (384kBit/s U Bus) 26 way sub-D type, RS422 levels 64-576kbit/s USB x 2, IP Ethernet 1 x RJ45 TCP/IP or UDP/IP 9 way D type Direct: 300, 1200 2400, 9600 and 38400 MUX: 300,1200,2400, 9600 and 19200 Audio I/O, AES/EBU, 9 way D type 9 way D type Balanced XLR-3, Input Impedance > $25k\Omega$, symmetrical Output Impedance < 100Ω , symmetrical 25 way D type, 4 x in/out contact closures 9 way D type

32, 44.1 and 48kHz

10Hz through to 22.5kHz mono & stereo 10Hz through to 22.5kHz mono & stereo Standard apt-X™, Enhanced 16, 20 & 24 bit apt-X™ ISO/MPEG 1, 2, 2.5 Layer III ISO/MPEG 1, 2 Layer II CCITT/G.722 CCITT/G.711 AAC, AAC Low Delay MUCAS™, J.52, D4 – IMUX, CCS J.52. 24-bit/96kHz sigma-delta 3:1 4:1 Standard & Enhanced apt-X™ Variable with all other algorithms 1.9ms Enhanced apt-X™ @ 48kHz Fs. 2.5ms Standard apt-X™ @ 48kHz Fs. Variable with all other algorithms





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* Optional NB: All specifications are subject to change without notice.

