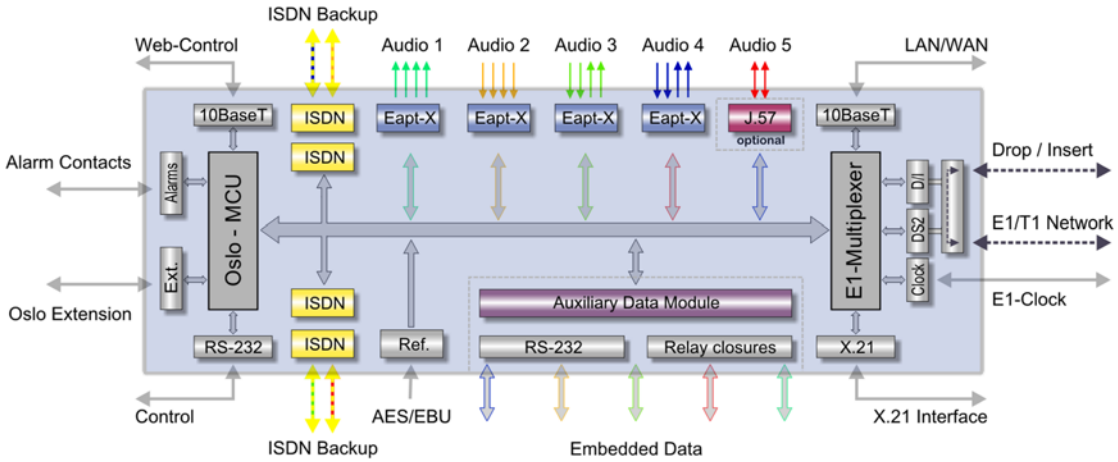
WorldNet Oslo

The **WorldNet Oslo** is a modular, multiple channel audio codec designed to transport high quality audio and data over various digital networks. The flexible system architecture and variety of available options make the unit highly customisable to current requirements as well as enabling future expansion.

Designed for Broadcasters and Service Providers, the WorldNet Oslo has two primary advantages. Firstly, the unit has several failsafe options which guarantee the availability of audio under extreme circumstances. Secondly, by using Enhanced apt-X® the WorldNet Oslo delivers audio content of exceptional acoustic properties (48kHz Sampling Frequency, 24 bit word resolution) at a very low coding (latency) delay i.e. under 5 milliseconds end-to-end. A single WorldNet Oslo frame can transport up to 12 fully duplex audio channels (or 24 audio channels in simplex mode). In addition to mono and stereo for FM, HD Radio and DAB, the WorldNet Oslo is also designed for 5.1 Multi-channel applications.

The WorldNet Oslo supports E1 (2Mbit/s), T1 (1.5Mbit/s), X.21, ISDN and Ethernet data interfaces. Audio can be transported via synchronous or packetised networks (IP). On a typical configuration, 6 x 15k Stereo duplex programs can be delivered over 1 x E1 or T1 circuit. The Ethernet Interface can also be used for WAN / LAN data transfer. By allocating timeslots on an E1 or a T1 circuit, a broadcaster can send audio and data simultaneously with the benefit of saving expenditure on separate circuits.

Typical E1/T1 configuration



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Technical Specifications

Physical

Size:	3U x 19" Rackmount
Weight:	9Kg
AC Power Supply:	90 – 250 VAC, 47 – 60Hz
DC Power Supply:	-48VDC
Environmental:	+5ºC to +45ºC
Power Consumption:	<200W

Audio

Audio Input / Output:	Analog, AES/EBU
Sampling Frequencies:	32, 44.1 & 48kHz
Audio Bandwidth:	10Hz – 22.5kHz
Analog Mode:	Balanced XLR-3
I/P Impedance:	>25kΩ/600Ω, Symmetrical
O/P Impedance:	<100Ω/600Ω, Symmetrical
Digital Mode:	Balanced XLR-3
Impedance:	110Ω
Digital Ref In:	Balanced XLR-3
Source Coding:	Enhanced 16, 24 apt-X®
Compression Ratio:	4:1
Coding Delay:	2ms @ 48kHz, E apt-X®
Dynamic Range:	16 bit > 85dB 24 bit > 110dB

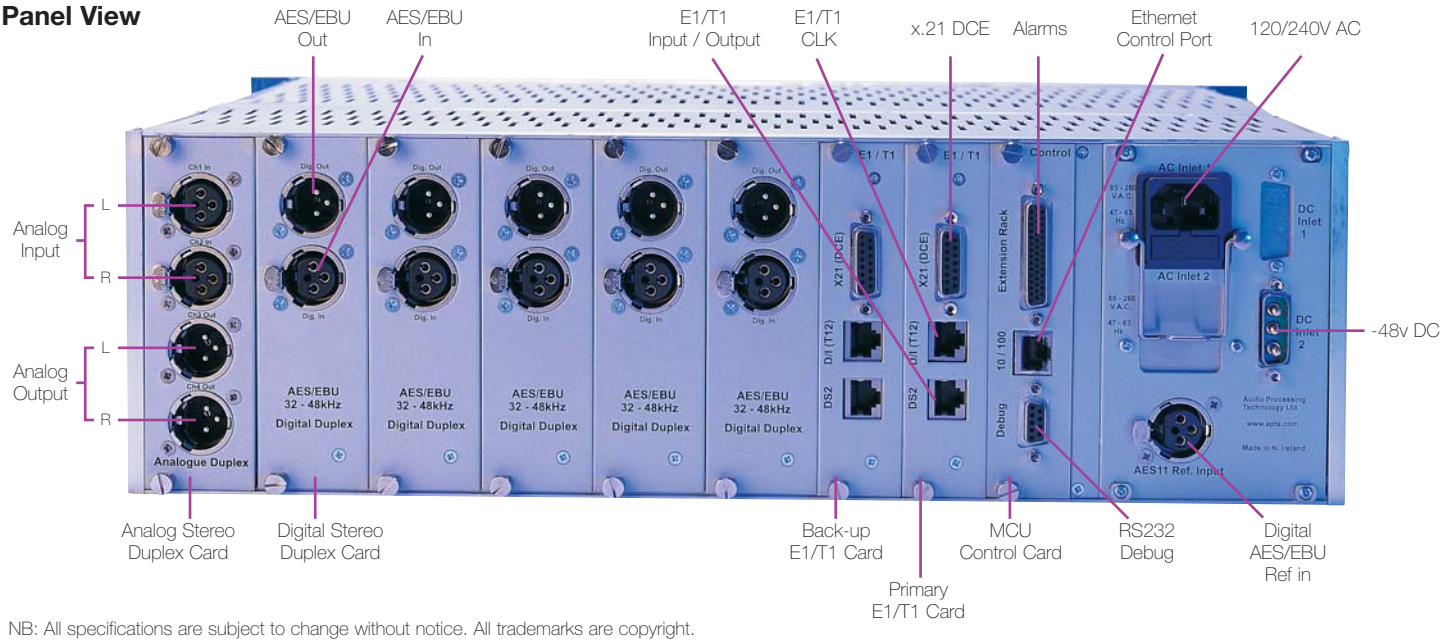
Telecom

E1:	G.703, 2.048Mbit/s, 32 Duplex DS0`s
T1:	T1.102, 1.544Mbit/s, 24 Duplex DS0`s RJ45 Balanced, 120Ω Termination
X.21:	64kBit/s – 2048kBit/s, 15 way sub-D Type DCE
Ethernet:	10BaseT, RJ45 TCP/IP or UDP/IP

Ancillary Data & Control

Aux Data:	1 channel per audio pair, 25 way D type, RS232 level
Data Rates:	1200, 2400, 4800, 9600 Baud
Control I/O:	TTL I/O`s, 1 Per Audio Pair
Alarms:	15 Way D type, 7 Relays, 3 Contacts Per Relay
Control In:	10/100 Ethernet, GUI, Web Browser, RJ45, SNMP.

Back Panel View



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