

WorldCast Eclipse

WorldCast Eclipse is a multi-algorithm, fully duplex, stereo audio codec suitable for a wide range of broadcast, corporate and pro-audio applications.

Multiple network interfaces are provided on the WorldCast Eclipse: IP for connection over Wide Area and Local Area Networks; X.21 for connection to high speed fixed synchronous networks and ISDN for connection over dial-up digital links.

WorldCast Eclipse is compatible with many other manufacturers' codecs: Standard 16-bit apt-X[®] and Enhanced 16 & 24-bit apt-X[®] are supplied as standard and optional coding algorithms available include MPEG 1/2 Layer II/III, MPEG 2/4 AAC, G.711 and G.722.

A rich array of available features include Automatic Back-up, Auxiliary Data, Silence Detect, Contact Closures and Alarm Ports. The DSP architecture ensures that broadcasters can be assured of 24/7/365 reliability.

The WorldCast Eclipse can be controlled and configured by users of all abilities and technical skill. In addition to front panel operation and audio level monitoring, the system also comes with a Codec Management Software package. This powerful and intuitive graphical user interface enables extensive monitoring and management capability over IP.



WorldCast Eclipse Features :

- High quality audio transport over IP, ISDN or X.21 / V.35
- Available audio bandwidths from 10Hz through to 22.5kHz, for FM and HD Radio/DAB applications.
- AES/EBU I/O (AES3), Digital Reference In
- Auxiliary data for additional data transmission (can be embedded in audio stream or sent via separate IP connection)
- 8 Opto-coupled Inputs and up to 8 Relay Outputs
- Codec Management System for control and supervision
- Alarm and Event Logging
- Adjustable Silence Detection with alarm output
- "Send on audio" feature (packet generated when audio exceeds user-defined level)



WorldCast Eclipse

Technical Specification

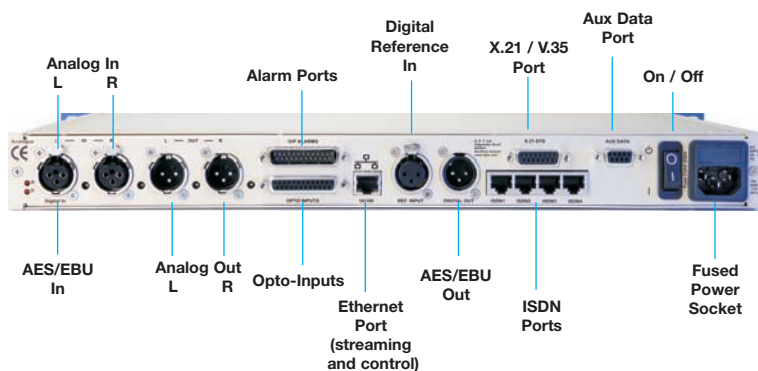
Physical

Size:	1U x 19" rack mount 44mm x 482mm x 255mm 1.75" x 19" x 10"
Weight:	2.5Kg / 5lbs
Power Supply:	100-250 VAC, 50-60Hz (optional 48VDC Supply)
Power Consumption:	<25W
Environmental:	0°C to +55°C, 95% humidity
Control:	Front Panel or Codec Management Software

Interfaces

ISDN:	S or U interface, 4 x RJ45 Rates 64-512kbit/s
IP:	Ethernet 1 x RJ45 RTP running on UDP For Control and Audio Transport
X.21 / V.35:	15 Way D Type DTE Interface RS449 Level Rates 64-576 kbit/s
Service Type:	DSCP, QoS
Aux. Data:	9 way D type, RS232 level
Data Rates (embedded):	1200, 2400, 4800, 9600 Baud
Data Rates (via IP):	1200, 2400, 4800, 9600, 19200, 38400, 76800, 115200 Baud
Digital Operation:	Audio I/O, AES/EBU, Balanced XLR-3 Impedance 110 Ohms Digital Reference Input, XLR-3
Analog Operation:	Balanced XLR-3 Input Impedance >10k / 600k Ohms Output Impedance <50 / 600 Ohms
Alarms:	8 Alarms on 25 way D Type
Opto-Coupler:	25 way D Type 8 Inputs driving 8 Relay Outputs

Back Panel View



(*) Denotes Optional Functionality

NB: All specifications are subject to change without notice. All trademarks are copyright.

Audio

Digital Operation:	32, 44.1 and 48kHz
Digital Audio Bandwidth:	10Hz through to 22.5kHz mono & stereo
Analog Operation:	8kHz-48kHz
Analog Audio Bandwidth:	10Hz through to 22.5kHz mono & stereo
Sample Rate Converter:	3:1 (with bypass modes)
A/D Converter:	24-bit/96kHz sigma-delta
Standard Source Coding:	Standard apt-X® Enhanced 16, & 24 bit apt-X®
Multi-Algorithm Pack 1(*):	ISO/MPEG 1/2 Layer II
Multi-Algorithm Pack 2(*):	ISO/MPEG 1/2 Layer III ISO/MPEG 2/4 AAC CCITT G.711, G.722
Compression ratio:	apt-X® - 4:1 others - variable
Coding Delay:	Standard apt-X® 2.5ms @ 48kHz Fs Enhanced apt-X® 1.9ms @ 48kHz Fs
Dynamic Range:	16 bit >85dB 24 bit >110dB
Phase Response Linear:	DC to Fs/2
Pass Band Ripple:	<0.2dB

Codec Management System



Highly Intuitive Graphical User Interface allows control of multiple units from a single PC. Overview screen enables identification of errors anywhere on the network at a glance.

Set-up and configure all WorldCast systems in an IP network. Performance Monitoring provides comprehensive statistics on audio, IP and aux data links as well as buffer levels.

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