

WorldCast Horizon NextGen

Delivering Broadcast Quality Audio over Inexpensive IP Links

The WorldCast Horizon NextGen boasts the most complete set of IP features ever included in APT's extensive range of professional IP codecs and is the first to feature our revolutionary "SureStream" technology.



See our website for details

the high feature density, the WorldCast Horizon NextGen is extremely competitively priced.

Perfect for STLs and mission-critical applications, the WorldCast Horizon NextGen provides extensive control and monitoring capabilities to manage both your audio, data and network conditions and other equipment located at the transmitter site.

Delivering Exceptional Audio Quality

- Professional duplex stereo IP audio codec at affordable price
- Wide range of algorithms: Enhanced apt-X algorithm, Linear PCM, G.722#, G.711#, MPEG 1/2 Layer 2#, MPEG Layer 3 CBR# & MPEG Layer 3 VBR#
- Support for MPEG 4 AAC HE V1/2*

Ensuring Extensive Connectivity

- High quality audio transport over IP networks using RTP/UDP and SIP/SDP
- Dual IP ports configurable for back up#
- Embedded Auxiliary data for transmission of RBDS / RDS or PAD
- Up to 4 Opto-coupled Inputs and up to 4 Relay Outputs
- USB port for Remote Control of Legacy Serial Equipment**

Enabling Professional Audio over IP Networking

- Support for Unicast & Multicast applications for flexible IP configuration
- EBU N/ACIP Compliant with support for SIP/SDP protocols
- Auto-detection of incoming IP stream#
- VLAN Tagging #
- Robust connection under stressed network conditions and super fast, automatic reconnection if a link is dropped
- Allows management of network conditions such as packet size, buffers and QoS levels for optimum audio performance

Providing a Robust Professional Platform

- Audio Back up from SD card or USB - single file
- Advanced Audio Back-up from SHOUTcast/Icecast stream with management of up to 10 playlists**
- Adjustable Silence Detection with alarm output
- DSP-based architecture for 24/7/365 reliability
- Fast Boot-up time for mission-critical environment
- Redundant Power Supplies*

Full Control & Monitoring

- Front panel operation with LCD screen & Keypad*#
- Highly Intuitive Codec Management Software (CMS)
- Embedded Web Server for access & control from any location
- Support for SNMP, Alarm & Event Logging
- User-definable access levels and logins maintain network security
- Support for Audemat's ScriptEasy software suite enabling scripting, telemetry and SNMP control of IP-enabled units at remote site#
- Remote Control of SNMP or Legacy Serial Equipment with Scripteasy Easylink API **

*Cost Option - # Contact us for availability of these features



Key Features:

- Professional & Affordable IP audio codec
- SureStream technology enables broadcast-grade audio over inexpensive IP links*
- Dual IP ports configurable for back up
- DHCP for automatic configuration of IP connection settings
- Large range of algorithms supplied as standard#
- Non-Destructive, Cascade-Resilient Coding with Enhanced apt-X
- Fully N/ACIP compliant#
- VLAN Tagging#
- Auto-detection of incoming IP stream#
- Embedded Auxiliary data for transmission of RBDS / RDS or PAD
- Up to 4 Opto-coupled Inputs and up to 4 Relay Outputs
- Audio Backup from SD card or USB
- Fast boot time for mission-critical environments
- Support for Audemat's ScriptEasy software suite enabling scripting, telemetry and SNMP control of all IP-enabled units at remote site#
- Support for SNMP, Alarm & Event Logging
- Intuitive web interface

Technical Specification

Physical	Size	1U x 19" Rackmount
	Dimensions	44mm x 480mm x 360mm - 1.73" x 19" x 14.2"
	Weight	<1.5 Kg / < 3.35 lbs
	Power Supply	100-250VAC, 50-60Hz
	Power Consumption	<20 W
	Environmental	0°C to +55°C, 95% humidity

Interfaces	IP	Ethernet 2 x RJ45, RTP/UDP, SIP/SDP, SHOUTcast, Icecast
	Aux Data	9 pin D Type, RS232 level
	Data Rates (embedded)	1200, 2400, 4800, 9600 Baud
	Data Rates (via IP)	1200, 2400, 4800, 9600, 19200 Baud
	Control	Web Interface, SNMP
	Digital Audio I/O	AES/EBU, Balanced XLR-3, Impedance 110 Ω
	Digital Ref Input	XLR-3
GPIOs	15 way D Type, NO/NC contacts	

Audio	Digital Operation	32 kHz, 44.1 kHz, 48 kHz, 96 kHz
	Digital Audio Bandwidth	10Hz through to 22.5kHz mono & stereo
	Sample Rate Converter	8:1 (with bypass modes)
	Standard Coding	Enhanced apt-X 16-Bit & 24-Bit, Linear PCM 16, 20 & 24 Bit, MPEG 1/2 Layer 2#, MPEG Layer 3 CBR#, MPEG L3 VBR#, MPEG 4 AACHEV1/2*
	Compression Ratio	apt-X: 4:1 - others: variable
	Coding Delay	Enhanced apt-X 1.9ms - @48kHz Fs#
	Dynamic Range	16 Bit > 85dB - 24 Bit > 120dB
	Phase Response Linear	DC to Fs/2
	Pass Band Ripple	< 0.2dB