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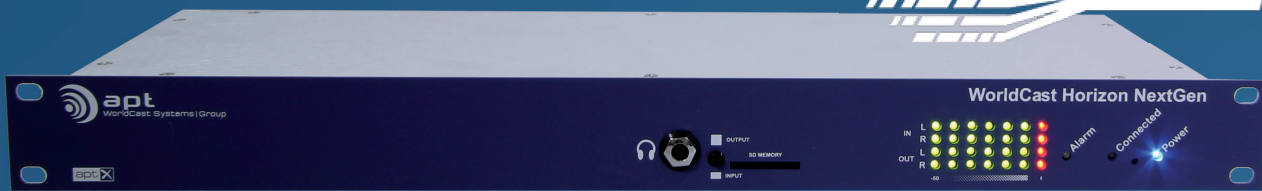
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WorldCast Horizon NextGen

STEREO CODECS

SURESTREAM



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.

In addition, this next generation IP audio codec also offers a wide range of algorithms as standard on a solid DSP platform with dual IP ports and redundant power supplies. Despite 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.



Status Screen on the Horizon NextGen Interface shows audio configuration and current connection status.

Powerful Performance

- Professional duplex stereo IP audio codec
- High quality audio transport over IP networks using RTP/UDP and SIP/SDP
- Support for Unicast, Multiple Unicast & Multicast applications for flexible IP configuration
- Dual IP ports configurable for back up#
- DSP-based architecture for 24/7/365 reliability
- Robust connection under stressed network conditions and super fast, automatic reconnection if a link is dropped
- Fast Boot-up time for mission-critical environment
- Redundant Power Supplies*
- Wide range of algorithms: Enhanced apt-X algorithm, Linear PCM & MPEG Layer 3 CBR#
- Support for MPEG 4 AAC HE V1/2*, MPEG 2/4 AAC LC*#, MPEG 4 AAC LD/ELD*#



Key Features:

- Professional & Affordable IP audio codec
- SureStream technology enables broadcast-grade audio over inexpensive IP links*
- Dual IP ports configurable for back up#
- Non-Destructive, Cascade-Resilient Coding with Enhanced apt-X
- 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
- Support for SNMP, Alarm & Event Logging#
- Intuitive web interface
- Intelligent Networking powered by ScriptEasy

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

Powerful Control



- Front panel operation with LCD screen & Keypad*#
- Highly Intuitive Network Management Software (NMS)# Embedded Web Server for access & control from any location
- Allows management of network conditions such as packet size, buffers and QoS levels for optimum audio performance
- User-definable access levels and logins maintain network security
- Embedded Auxiliary data for transmission of RBDS / RDS or PAD#
- Up to 4 Opto-coupled Inputs and up to 4 Relay Outputs
- Adjustable Silence Detection with alarm output
- Support for SNMP, Alarm & Event Logging#
- Intelligent Control with ScriptEasy* (see pg 6)
- USB port for Remote Control of Legacy Serial Equipment*#
- Audio Back up from SD card - single file#
- EBU N/ACIP Compliant with support for SIP/SDP protocols



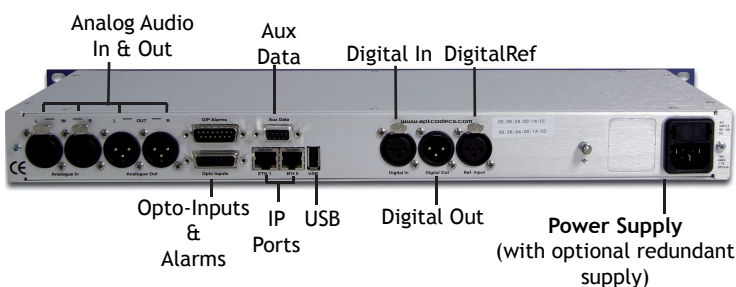
Aux / GPIO screen enables the configuration of switches, relays, alarms and Baud rates.

Powerful Savings



- Competitively priced professional platform
- SureStream for broadcast-grade reliability and audio quality over open internet links - see page 7
- Support for Unicast, Multiple Unicast & Multicast networking ensuring minimal and flexible operational costs.
- Also available as IP Decoder version providing an affordable approach for stereo drop-off locations

Rear Panel View



Technical Specification

Physical	
Size	1U x 19" Rackmount
Dimensions	44mm x 480mm x 160mm - 1.73" x 19" x 6.3"
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	
Ethernet	2 x RJ45, RTP/RTCP/UDP, IGMP, ICMP, DHCP, SMTP (Mail), SNMP, NTP, HTTP (Management)
Aux Data	9 pin D Type, RS232 level
Data Rates (embedded)	1200, 2400, 4800, 9600 Baud
Aux Data Rates (via IP)	1200 - 115,200 Baud (10 steps)
Control	Web GUI, APT NMS, SNMP, XML API
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
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 & 24 Bit MPEG 2: AAC-LC/LD, HE-AACv1/v2 MPEG4: AAC-LC/LD/ELD/ELD+SBR, HE-AACv1/2 MPEG1 Layer II#, MPEG2 Layer II#
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

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

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heynen@heynen.com • www.heynen.com •