



Affordable Audio Over IP Networking



POWERFUL PERFORMANCE

- Reliable and robust encoding/decoding of audio over IP networks
- Standard algorithms include professional Enhanced apt-X & linear audio, and MPEG 2/4 HE-AAC v1/2 coding
- AUX data transmission, bi-directional on Encoder and Decoder
- Auto-Detection of received audio format (Decoder)[#]



POWERFUL CONTROL

- Intuitive web-based browser control
- Supports Dynamic DNS for global accessibility by hostname rather than IP address
- Supports UPnP IGD protocol for configuration of UPnP enabled Internet gateways
- Distributed Intelligence powered by ScriptEasy*
- Supports SNMP monitoring



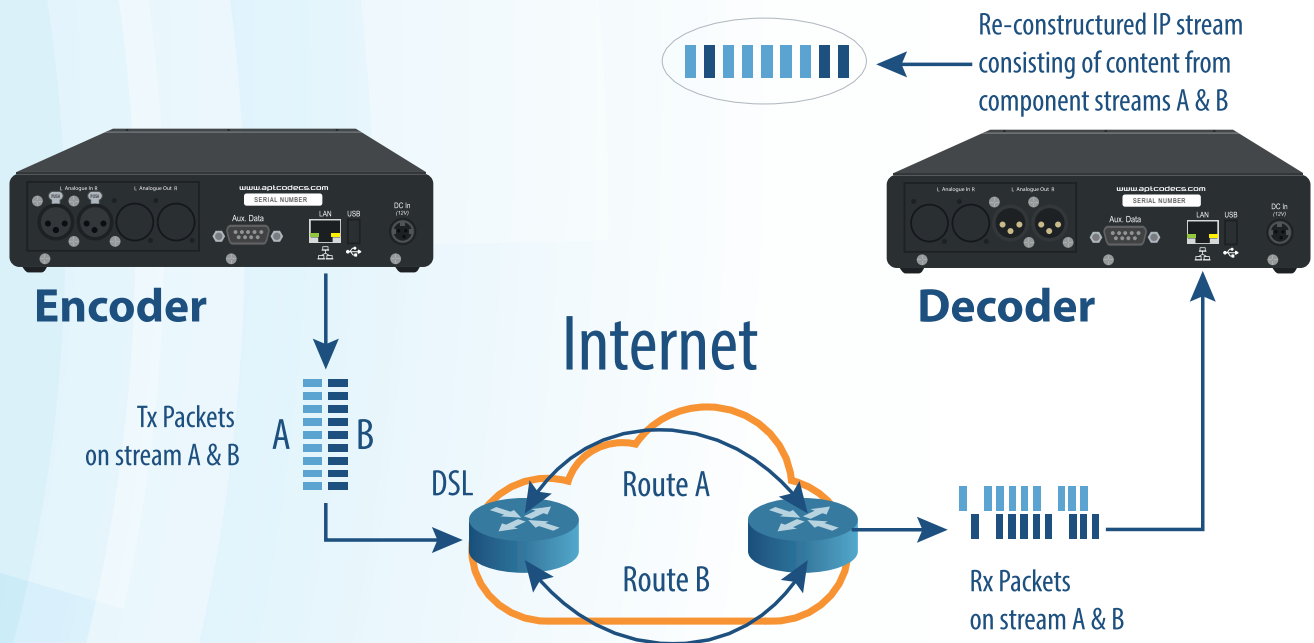
POWERFUL SAVINGS

- Extremely affordable with no compromise to quality
- Features APT's revolutionary SureStream technology for seamless, broadcast-grade audio over public IP links
- UDP Stream forwarding of audio and non-audio data, bidirectional on Encoder and Decoder
- Support of virtual IP interfaces for easy multi-network integration[#]

Applications

- Studio Transmitter Links
- Confidence Monitoring
- Commercial IP audio distribution
- IP music distribution systems in hotels, hospitals, campuses etc..
- In-store audio distribution applications

SureStream - Single Port Configuration (Two component streams)



Broadcast Audio over the Public Internet

SureStream technology is a revolutionary innovation from APT that enables broadcasters to use inexpensive IP links and still maintain professional broadcast-grade audio quality and reliability.

It delivers the audio quality and reliability you expect from a T1/E1 link at a fraction of the associated cost. SureStream also offers the added benefit of «Always-On Redundancy». With SureStream technology, you can save thousands on your audio transport bills and still offer your listeners the highest quality sound.



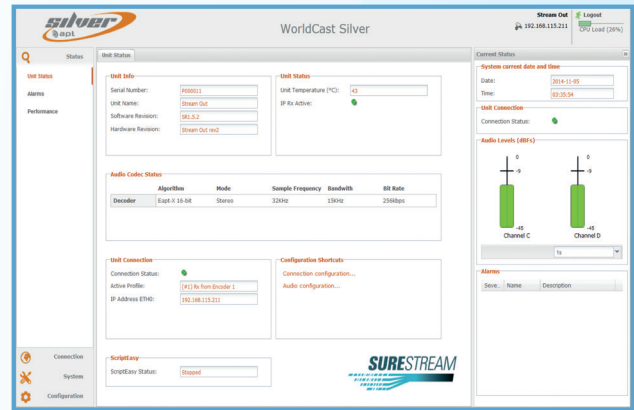
SureStream Awards

Key Features

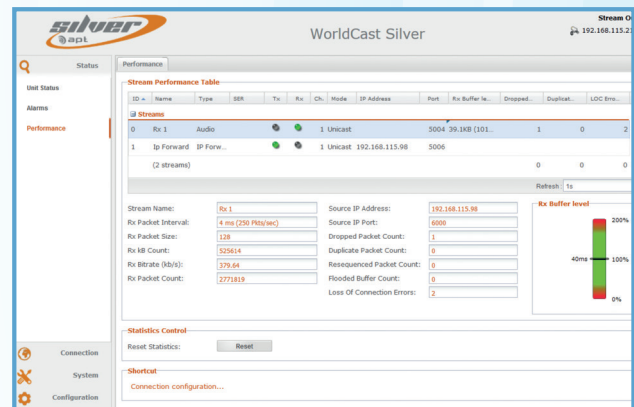
FEATURES

- Low cost separate encoder and decoder
- SureStream Technology as standard
- Virtual IP port extensions and VLAN[#]
- Professional range of algorithms as standard
- Compact 1/2U design – fit two units in 1U rack space
- Compatible with APT & NACIP-compliant codecs
- Dynamic DNS Client
- Bi-directional UDP stream forwarding on Encoder and Decoder
- UPnP Support for NAT gateway configuration
- Net-Security Features by Firewall capability[#]
- Intuitive Web interface
- Quiet, no-fan operation

[#] Available with System release 2.0
*Cost option



IP Silver Unit status Page



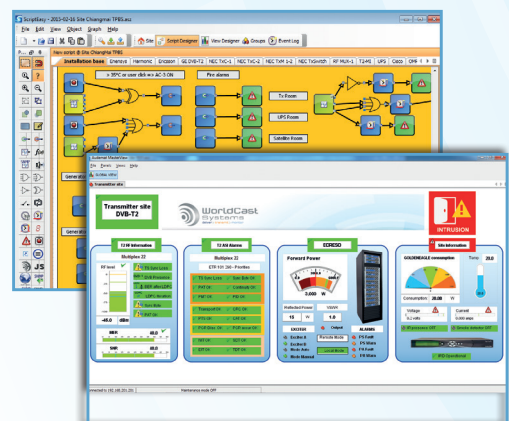
IP Silver Unit Performance Monitor

SCRIPT EASY

Advanced Telemetry and Facility Management with ScriptEasy

ScriptEasy is the revolutionary facility control software developed by WorldCast Systems to give the users the power and flexibility to create "Smart" sites; ones that can automatically take action to correct any critical errors that affect operations. Featuring an intuitive Graphic User Interface (GUI), ScriptEasy incorporates GPIO functions, serial communications, logic operators, live user inputs, timers and more. This allows the site operations to be "scripted", to allow evaluation of multiple parameters and even automatically engage backup systems, while simultaneously alerting relevant technical personnel.

The innovative interface, consisting of the ScriptEasy Designer and the MasterView modules, supports easy development and allows real time status display and management.



MasterView-Remote Customized view(s)

Technical Features



Technical specification

| Interfaces | |
|-----------------------------|--|
| Ethernet | Ethernet port, RJ45 for management and streaming |
| Virtual Network | Virtual Interfaces and VLAN tagging* |
| Analog I/O | Electronically balanced, capacitive isolated XLR for Left/Right, Imp. Hi/Lo and 600 Ω |
| Serial Aux Data | 9 pin D Type, RS232 level |
| USB (Decoder) | 5VDC supply of ext. equipment |
| PSU Connector | DC power supply connector with locking capability for ext. PSU |
| Management | Web GUI, APT NMS, SNMP, XML API |
| Audio | |
| Input/Output | Input (Encoder) +24dBu Output (Decoder) +24dBu |
| Audio Bandwidth | 10Hz to 20kHz mono & stereo |
| Standard Coding Algorithms | Enhanced apt-X 16 & 24 Bit, Linear PCM 16 & 24 Bit MPEG2/4 HE-AAC v1/v2 |
| Coding Delay | min. 2ms on Eapt-X and higher depending on chosen algorithm |
| Signal Processing | 24Bit |
| Network and IP | |
| IP Protocols Supported | RTP/UDP/IP, RTCP, DNS, Dynamic DNS, DHCP, ICMP, IGMP, VLAN*, UPnP (IGD), NTP, SNMP, SMTP, HTTP (management) |
| IP Statistics | Complete IP Statistics for each stream |
| Casting Modes | Unicast, multiple unicast, multicast, multi-multicast |
| De-Jitter Buffer (Decoder) | Buffer size 5 - 5,000ms adjustable, automatic packets re-sequencer |
| RTP/UDP Streaming and Modes | Stereo audio multiple Tx-Streams, UDP stream forwarding (duplex), Auto-Detection of received Stream (Decoder)* |
| Quality of Service | DiffServ, with separate DSCP values per stream, SureStream Technology and Error Concealment |
| Backup Features | SD Card for audio file storage* |
| Network Security | Service Filter and Firewall Features* |

| Data | |
|------------------------------|--|
| Serial Data Rates (embedded) | 1200, 2400, 4800, 9600 Baud |
| Serial Data Rates via IP | 1200 - 115,200 Baud (8 rates, duplex mode) |
| AUX Data via UDP | UDP forwarding PAD or private Data |

Available with System release 2.0

*Cost option

Physical specification

| | |
|---------------------------------|--|
| External Dimensions (H / W / L) | 44mm x 220mm x 160mm 1.73" x 8.66" x 6.3" |
| Weight | < 1,5 kg - 3.355 lbs |
| Power Supply ext. | 100-240VAC 50-60Hz, 12VDC (wall-mount) |
| Power Consumption | < 10W |
| Guaranteed Working Temperatures | 0°C - +45°C |
| Humidity | Up to 95% relative humidity (non-condensing) |

Order information

| APT IP CODEC (ex Horizon NG) | |
|------------------------------|-------------------------------------|
| REF | DESCRIPTION |
| TFP0103-A1 | APT IP ENCODER SILVER |
| TFP0104-A1 | APT IP DECODER SILVER |
| Software Options | |
| CD P0005 | ScriptEasy for APT CODECS |
| Hardware Options | |
| SPP00015 | Rack Mounting Kit for APT IP Silver |

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IP SILVER