



## 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
- Robust DSP-based platform for mission-critical operation
- 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



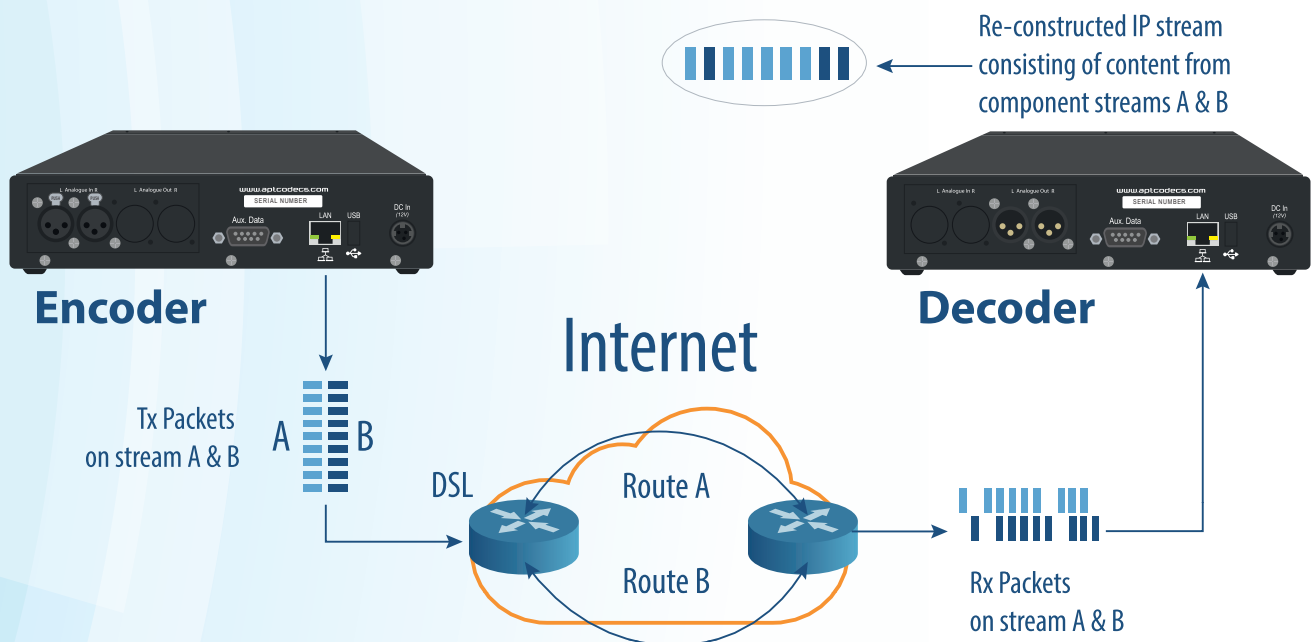
### POWERFUL SAVINGS

- 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.

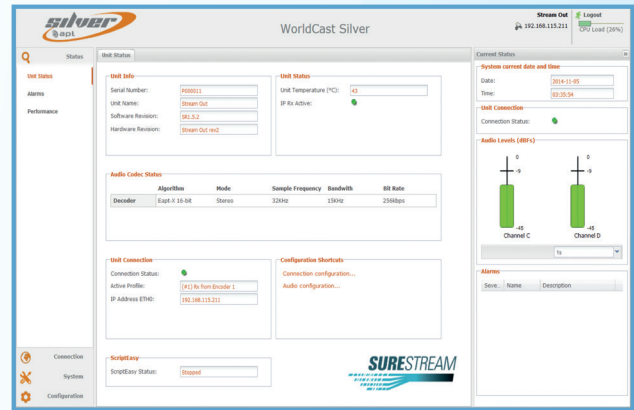


SureStream Awards

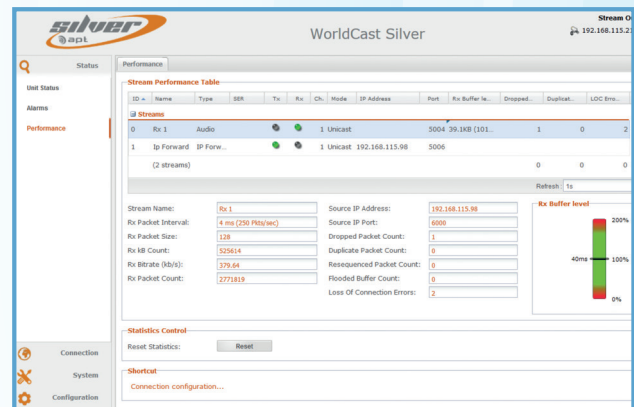
# Key Features

## 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
- Reliable DSP-based architecture
- Quiet, no-fan operation



IP Silver Unit status Page



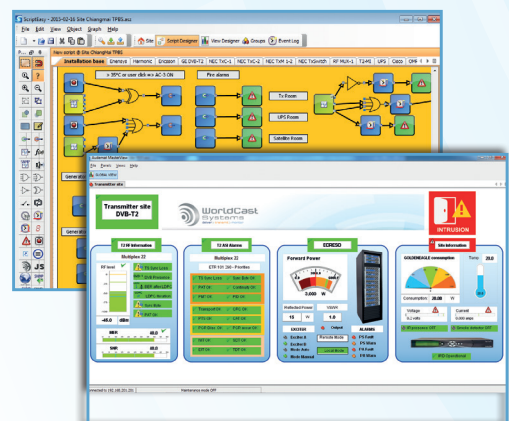
IP Silver Unit Performance Monitor



## 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 (available in a future release)
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, HTTPS (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
Network Security	Service Filter and Firewall Features

Technical specification are subject to change without prior notice – 06/2017

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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

## 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
Hardware Options	
SPP00015	Rack Mounting Kit for APT IP Silver



See more about  
IP SILVER