





APT IP Silver Encoder | Decoder

Affordable Professional Audio Streaming

The APT IP Streamers, featuring advanced analog audio encoding and decoding capabilities, are armed with professional, top-tier technologies unmatched at this price point.

Features such as a range of professional audio formats, APT's proven SureStream technology for IP redundancy, and ScriptEasy's distributed intelligence are typically reserved for more expensive codecs.

With a focus on quality and affordability, the APT IP Silver Range ensures reliable and time-controlled IP audio transmission at a high level.

Designed for versatility, the Silver IP Streamer is well-suited for individual FM feeds as well as multi-frequency broadcasting.

Optimized for mission-critical applications, this solution offers a wide range of wired network connectivity options and explicitly supports the use of 4G/5G modems for connectivity.

Choosing the APT IP Silver Encoder and Decoder means investing in the rock-solid performance that has made APT a trusted name for broadcasters worldwide.







Benefits



IP Transport Optimization

The APT IP Silver Range is rich in network capabilities, featuring VLAN tagging and sophisticated NAT traversal techniques to accommodate networks with dynamic IP addresses, like the Internet or cellular connections. Additionally, its SureStream technology mitigates packet loss, while NTP-based time alignment minimizes latency fluctuations.



Pristine Composite/MPX Quality & Transparence

Enhanced aptXTM delivers unparalleled signal fidelity and minimal coding delay while only requiring a quarter of the uncompressed bandwidth. Additional high-quality formats such as linear PCM, MPEG2/4 HE-AAC and OPUS offer versatility for broadly diversified applications.



Maximize your Cost Savings

APT IP Silver products are designed to offer significant cost advantages. Featuring state-of-the-art capabilities such as Enhanced aptX, SureStream, and ScriptEasy, these products are integral to the WorldCast Systems ecosystem, delivering reliable, high-quality audio distribution beyond the scope of costly transmission pathways.

APT IP SILVER | Key Benefits

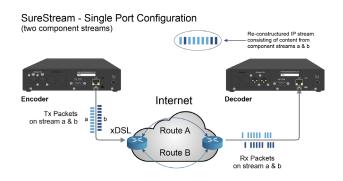




Low Latency - Low Costs: With SureStream's capability for redundant streaming, broadcasters can elevate more cost-effective but imperfect services into genuine low-latency, broadcast-grade IP connections.

Single Port and VLAN Configurations: As a VLAN-aware device, the IP Silver has the capability to leverage multiple networks as SureStream paths. When using SureStream on a single network, the statistical diversity generator emulates the desired diversity across component streams.

Scalability and Flexibility: SureStream SureStream stands as the most flexible and scalable solution for safeguarding content transmission. It integrates paths from a diverse array of networks, including MPLS, satellite, microwave, xDSL, and cellular (4G/5G), to forge a unified and highly robust connection..



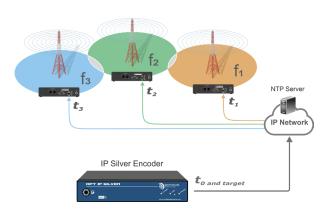
xDSL connections become the broadcast links

NTP-based Content Time-Alignment

Control Over Target Latency: The NTP-based Content Alignment-feature eliminates variable latencies of an IP network within narrow limits*. For program transmissions in multi-frequency networks (MFN), this ensures a seamless program transition between frequencies.

Stable Latency: The timestamp-based transmission requires only a single setting on the IP Silver Encoder to define the general target latency to each Decoder at the transmitter sites.

Fine Adjustment of the Program Playout: Fine-tuning is essentialfor the optimal alignment of program overlaps in the MFN transmitter network. The IP Silver Decoder offers the flexibility for individual latency adjustments at the transmitter level, down to millisecond steps.



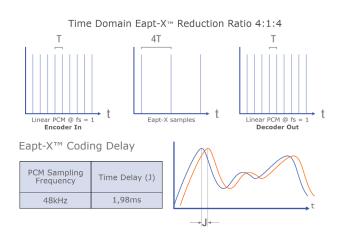
FM-MFN network with time-aligned overlap zones



EaptX™: Offering the highest fidelity and a 4:1 compression ratio in real-time. Eapt-XTM stands as the industry's leading compression algorithm

Lowest Delay: Still setting the benchmark with a coding delay of less than 2 milliseconds, it offers performance comparable to linear PCM processing.

Non-Framed: Eapt X^{TM} , as a non-framed algorithm, creates the ideal condition for real-time IP transport. With a minimal packet size of 1 ms, it achieves both high-speed transmissions and robust error resistance in IP networks.





Advanced Telemetry & Facility Management

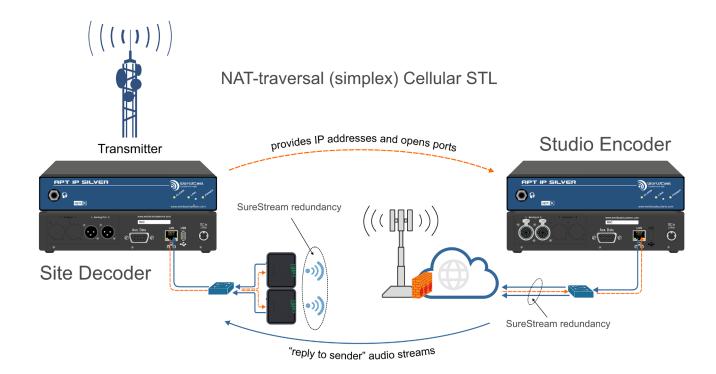
ScriptEasy is a revolutionary facility control software for connected devices, enabling the automatic correction of any critical errors that may occur. Across its intuitive web interface, ScriptEasy includes management of the GPIO, serial communications, SNMP, logic operators, live user inputs, timers, and more. This enables the "scripting" of site operations for evaluating multiple parameters and automatically engaging back up systems, while simultaneously alerting relevant technical personnel. Integrated in the APT IP CODEC, ScriptEasy is the core technology that provides the device with its inherent "intelligence".

^{*} A swing is possible within the limits of the NTP time stability.



Transmitter Link in a Mobile Network

Utilizing SureStream and the NAT traversal feature



APT IP SILVER | Key Features

- Simplex audio transmission and duplex data communication
- Professional audio formats including Eapt-XTM, MPEG 2/4 HE-AAC, OPUS and lin. PCM
- Supports RTP/UDP streaming and SIP Connections
- --> Point-to-Point and Point-to-Multipoint operation
- Packet redundancy, provided by SureStream, enables reliable transmissions on the Internet
- NTP-based packet timestamping allows to set target latencies per stream
- Supports UPnP IGD protocol for configuration of UPnP enabled gateways (routers)
- The advanced NAT traversal capability overcomes port blockages in the network
- --> Forwarding and protecting of audio or non-audio UDP Streams, such as EDI or E2X data
- Supports "Diffserv" Quality of Service (QoS) on variable DSCP values
- VLANs and virtual IP interfaces enables multi-network integration
- --> Performance monitoring on each individual IP stream
- Configurable jitter buffer for receiving IP stream (1 ms to 5000 ms)
- Serial AUX Data in Duplex Communication



Support Level Agreement

To make sure you reap all the benefits of your broadcast investment, you can rely on the WorldCast Systems' Support Agreement program. The range of services available and with the support of our team of experts, you will benefit from maximum uptime, better performance, and overall improve your Total Cost of Ownership!

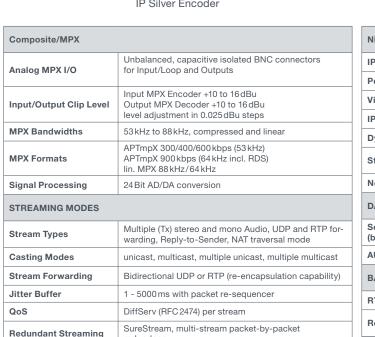
Contact your Sales Manager for more information.

APT IP SILVER MPX | Technical Specifications





IP Silver Encoder



MANAGE	IENT
IVII/(IVIOLE)	

Target Latency

Unit Clocks

Web Browser GUI

APT NMS

Connect Kybio (SNMP-based Manager)

SNMPv2c/v3

APT API

ScriptEasy

MONITORING & ALARMS

Adjustable Silence Detectors on Inputs (Enc.) and Outputs (Dec.)

redundancy

Internal Media Clock and

NTP-based up to 4.5 sec.

NTP-based Time Reference

Event Logs

SNMP Traps/Notifications

PHYSICAL INTERFACES

Analog MPX	BNC analog MPX In/Loop (Enc.), analog Out (Dec.)
Headphone	1/4" (6.3 mm) Jack Socket (front)
AUX Data	D-Type 9-pin connector
Ethernet	RJ45
Power Connector	DC Connector with interlock
USB Port	5VDC supply for ext. equipment and future options



IP Silver Decoder

NETWORK		
IP Interface	10/100BaseT/Tx, Ethernet IEEE 802.3x, IP4, Auto MDI-X	
Port Speed (FE)	Full-auto, restricted-auto and hard coded	
Virtual IP Interfaces	VLAN Tagging according to IEEE 802.1q	
IP Alias	Multiple virtual IP addresses and gateways	
Dynamic DNS	Multiple DDNS clients selectable	
Standard Protocols	RTP, UDP, DHCP, FTP, HTTPS, ICMP, IGMP v2/3, SMTP, SNMPv2c/v3, NTP, UPnP (IGD)	
Net Security	TLS 1.1 and higher, Service Filter and Firewall	
DATA		
Serial Data (bidirectional)	RS 232 via UDP stream up to 15.200 Baud	
AUX Data via UDP	UDP forwarding PAD/E2X or private Data	
BACKUP OPTIONS		
RTP Stream	Multiple RTP backup streams	
Redundant Streaming	SureStream, multi-stream packet-by-packet redundancy	
PHYSICAL SPECIFICATIONS		
Dimensions (HxWxD)	44x 223x 163mm (1.73"x 9.5"x 6.3")	
Weight	1.0 kg / 2.2 lbs	
Power Supply	12 VDC, external PSU, wall-mount 100-264 VAC/50-60 Hz	
Power Consumption	5 W	
Env. Temperatures Operation Storage Humidity	0°C - +55°C -30°C - +80°C 95% (non-condensing)	

Order information

REF	DESCRIPTION
TFP0103-A1	APT IP Encoder Silver
TFP0104-A1	APT IP Decoder Silver
SPP00015	Rack Mounting Kit for APT IP Encoder/Decoder Silver

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