STL Systems For Every Broadcaster

Broadcast-Grade Audio Even Over Public Internet
The APT WorldCast Horizon NextGen IP audio codec boasts patented SureStream technology to deliver the audio quality and reliability you expect from a T1/E1 link using inexpensive public Internet connections such as ADSL, wireless 3G and 4G, LAN, WAN and Wi-Fi. It also offers a wide range of algorithms as standard on a solid DSP platform with dual IP ports and redundant power supplies. Perfect for STLs and mission-critical applications, it provides extensive control and monitoring capabilities to manage both your audio, data and network conditions and other equipment located at the transmitter site. Note: image shows base unit with optional front panel.

- SureStream technology for broadcast-grade audio over inexpensive IP links
- Enhanced apt-X algorithm, Linear PCM and several MPEG variants
- Embedded auxiliary data for transmission of RBDS / RDS or PAD
- Dual IP ports for dual streaming applications or separate control/streaming
- DHCP for automatic configuration of IP connection settings
- Non-destructive, cascade-resilient coding with Enhanced apt-X
- Up to 4 opto-coupled inputs and up to 4 relay outputs
- Fast boot time for mission-critical environments
- Intuitive web-based user interface

STL System over IP
The APT WorldNet Oslo IP-STL System delivers anywhere from 4 mono / 2 stereo to 28 mono / 14 stereo channels of linear PCM or apt-X encoded audio over IP lines. Both analog and AES /EBU audio modules are available enabling paths at 15 kHz for FM and 20 kHz for HD Radio.

AoIP Modules
AoIP modules for the WorldNet Oslo combine audio, IP transport and auxiliary data on a single module. Each AoIP card is capable of decoding four separate streams from four separate sources or time domains, eliminating the issues of clock drift associated with streaming multiple channels over IP to a single decoder.

STL System Over T1
The WorldNet Oslo T1-STL system transmits broadcast grade audio over T1 lines with minimal delay. Highly configurable, it can transfer either linear or enhanced apt-X encoded audio with digital or analog I/O. It can send two AES /EBU Paths at 15 kHz over a T1 for FM 1 & 2. It can also transport HD 1 & 2 UDP streams to the transmitter site in parallel with the audio streams.

Oslo is available in both 1U and 3U versions. The 1U Oslo can hold up to 4 AoIP modules supporting up to 16 channels of audio (much more if using multiple unicast or multicast technology). The 3U can hold up to 6 AoIP modules with onboard IP transport. Alternatively, it will hold up to 6 contribution modules (audio, data or voice) and 2 transport modules (IP and/or T1/E1).

Powerful Satellite Receivers
The X Digital XDS-PRO1Q is a digital audio receiver that lets radio stations receive audio broadcasts from a satellite or IP network (live broadcast as well as programs to be stored and played later). The PRO1Q gives radio networks the ability to target their advertising to specific locations so each receiver in a network can play localized spots and other content. In addition to copy splitting, it enables spot rotation, scheduling live, store and forward programs, audio insertion, and digital live recording with playback to delay time zone feeds. It sports one balanced audio output. The XDS-PRO4Q has the same great features but offers four balanced audio outputs. The XDS-PRO1QSG is a StarGuide-compatible version of the XDS-PRO1Q that will work with existing StarGuide networks.

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Rock-Solid STL Transmitters/ Receivers
The STL-20C composite transmitter and companion SR-20C receiver form a high-quality, frequency synthesized, radio link. Depending upon the available bandwidth, the systems can transmit composite stereo with two subcarriers, or digital stereo audio when used with external modems.

- Excellent composite stereo separation, low noise and low distortion
- 20 watts of power
- Separate right and left units can link for stereo operation with greater interference rejection, superb noise specifications and low channel crosstalk

Economical Analog STL System
The TFT 5200 Series analog STL system features up-to-the-minute technology in a budget-friendly package. Consisting of a transmitter and receiver pair, the TFT 5200 delivers a composite or mono signal with maximum flexibility and minimum of adjustment or configuration. The transmitters have a nominal output of 10 watts. The receivers have improved sensitivity for optimum fade margin and reliability, and built-in automatic switchover. The RF entire system is frequency agile and set by software from the front of the transmitter and receiver. Up/down pushbuttons let you select the desired frequency.

Frequency Agile STL System
The Armstrong Xlink microprocessor-controlled transmitter/receiver system is frequency agile with heightened sensitivity and impressive selectivity. Virtually instant frequency changes make the Xlink the perfect main and back-up STL system.

- 3 SCA, 1 MUX and 1 Mono inputs
- Front panel LCD display for easy control and monitoring of system parameters
- Remote control ready
- Seamlessly interfaces with Armstrong’s DX Series of digital decoders and encoders

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BSW and Moseley: Working Together for Over 30 Years

High Speed LAN/ IP Transmitters
The high-speed Lanlink HS 900 and HS 900D are long-range (up to 30 miles) point-to-multipoint IP/ Ethernet/ IP-based facility controller solutions. They allow broadcasters to take advantage of existing 950 MHz aural STL antenna infrastructure and bring LAN connectivity, along with two RS-232 data circuits, between a single studio and multiple transmitter/ studio sites. The LanLink combines conservative bandwidth allocation with powerful Reed-Solomon Error Correction, Trellis Coded Error Correction, and an interleaver to overcome multipath.

Dedicated Starlink Amp
Specially designed for use with Moseley Starlink STL systems, the SL9000RFA linear power amplifier delivers 10 watts of output power for robust operation on difficult STL paths.

- Boosts STL link budget by 10 dB
- Operates within ratings of Moseley LanLink duplexer
- Output isolator protects from antenna and cable faults

High Capacity Digital Aural STL/TSL
The Moseley Event 5800 provides a bidirectional E1/IP link capable of eight uncompressed stereo audio streams and IP for remote networking applications. It combines conservative bandwidth allocation with powerful Reed-Solomon Error Correction, Trellis Coded Error Correction, and an interleaver to overcome multipath and channel impairments.

- Transports up to 9 radio stations with uncompressed digital audio over a single link
- Bidirectional for backhaul of confidence monitor, RPL, or satellite downlinks
- IP Ethernet capacity supports network applications, remote servers, surveillance and security, Internet, and email communications
- Separate IDU and ODU design eliminates transmission line losses

Efficient STL Systems
Moseley’s Starlink SL9003Q is an open architecture, all-digital aural STL without compromise. Using spectrally efficient QAM (Quadrature Amplitude Modulation) technology, it conveys up to four linear uncompressed audio channels over a single narrow bandwidth 950 MHz STL channel. This uncompressed 16-bit linear audio is absolutely uncompromised and can be configured with up to two pairs of stereo audio (that’s like getting two radio signals for the price of one). AES/EBU I/O, combined with a sample rate convert, provide seamless connection without delay. Selectable digital audio sampling rates of 32, 44.1 or 48 kHz.

Digital STL System Over T1
The Starlink 9003T1 is a powerful, all-digital modular system for transmitting high-quality audio over T1 lines. It provides great flexibility in configuring multiple channel STL/TSL. It uses a range of personality modules and daughter cards in a 3-rack unit mainframe. The mainframe can house up to eight application-specific modules including 16-bit PCM linear digital audio, ISO/ MPEG layer II or apt-X source coding and more.

State Of The Art Audio Transporter
The Moseley Rincon Software Defined Audio Transporter delivers multichannel digital audio over IP, TDM or Radio links and networks simultaneously. Rincon conveys four AES stereo audio channels in 2x2, 4x0 or 3x1 configurations, and operates linear uncompressed audio channels over a single narrow bandwidth 950 MHz STL channel. This uncompressed 16-bit linear audio is absolutely uncompromised and can be configured with up to two pairs of stereo audio (that’s like getting two radio signals for the price of one). AES/EBU I/O, combined with a sample rate convert, provide seamless connection without delay. Selectable digital audio sampling rates of 32, 44.1 or 48 kHz.

WHY DON’T WE PRINT OUR PRICES? We are constantly negotiating with our vendors, buying in bulk and putting together special packages to bring you the best price every day.