

ATSC 3.0 to TS Multi-Channel Transcoder



TXS 3800

With the new ATSC 3.0 broadcast standard breaking compatibility with traditional broadcast transport streams, the need convert these signals to support retransmission on existing cable, IPTV and satellite systems is set to grow rapidly.

Sencore's TXS 3800 is a robust and reliable multi-channel ATSC 3.0 to Transport Stream transcoder that is ideally suited to help MVPDs convert ATSC 3.0 to the formats and video/audio CODECs they need for their existing distribution systems. The TXS 3800 also supports descrambling ATSC 3.0 DRM (A3SA) with an add-on license.

The TXS 3800 includes both an ATSC 3.0 RF input for receiving directly off-air or an IP input for receiving the new-format streams from an external demodulator. These streams are then repackaged into transport streams and the video and audio are transcoded into compatible CODECs, resolutions and formats. Additionally, the main caption services are transcoded back into 708/608. The converted streams are then output as IP multicasts or unicasts for distribution. The powerful and high-quality transcoder in the TXS 3800 can transcode and repackage up to four programs/services.

Unit configuration is done using the intuitive web GUI or through an automation system utilizing the SNMP or webservices API.

ATSC 3.0 Retransmission

Receiving RF or IP ATSC 3.0 signals and converting them to stream formats necessary for retransmission on existing cable, IPTV and satellite distribution systems.

Video and Audio Transcoding

Converting HEVC video and AC-4 audio to other formats such as H.264/MPEG-2 video and AC-3, AAC and MPEG

ATSC 3.0 Descrambling

Descramble ATSC 3.0 for professional and authorized reuse applications.

SPECIFICATIONS

INPUTS

Input Type: RF Connector Type: RF Frequency Range: RF Sensitivitý: IP Connector Type: IP Input Streams: Container Formats:

TRANSCODER

Input Video CODECs: Input Video Resolution: Input Audio CODECs: Video Transcode Capacity: Audio Transcode Capacity: Closed Caption Transcode: Output Video CODECs: Output Video: Output Audio CODECs:

OUTPUT

Connector Type: Output Streams: Stream Format:

Addressing:

ATSC 3.0 via RF and/or IP 75ohm F Connector 42 to 870 MHz -20 to 30 dBmV RJ45 10/100/1000 Up to 2 Receives per Transcoder MPEG-DASH via ROUTE

HEVC/H.265, H.264 Up to UHD AC-4, AC-3, AAC or MPEG Up to 4 Services/Programs 2 Audio Services per Video Service 1 Caption Service per Video Service H.264 or MPEG-2 Resolution Up to UHD AC-3, AAC or MPEG

RJ45 10/100/1000 Up to 2 Transmits per Service MPEG Transport Stream via SMPTE 2022-2 Unicast or Multicast

MANAGEMENT

Connector: User Interface: Automation Interfaces:

PHYSICAL

Chassis Size: Power Supply:

RJ45 10/100/1000 Web GUI

SNMP Status/Control/Traps **REST Web-Services API**

1RU, Rackmount. 20 in. Depth Dual, Redundant, Hot-Swappable 100-240V, 50-60Hz

ORDERING INFO

TXS 3800 ATSC 3.0 Transcoder Base License TXS 38001 Transcoding License - 1 Service TXS 38002 ATSC 3.0 Descrambling License TXS 38020 ATSC 3.0 RF Single-Tuner Input Card ATSC 3.0 RF Multi-Tuner Input Card TXS 38021 TXS 38025 2x RJ45 Add-on Network Card TXS 38026 2x SFP Add-on Network Card TXS 38041 1RU Chassis for 1-2 Transcodes TXS 38042 1RU Chassis for 3-4 Transcodes