TSACO-3000
Automatic Failover Switch
ASI, 310M & TSoIP

AUTOMATIC FAILOVER SWITCH

The **TSACO-3000** is a transport stream automatic failover switch and transport stream format converter all in one. The **TSACO-3000** is compliant with both ATSC and DVB standards and is ATSC Mobile DTV Ready.

The **TSACO-3000** enables broadcasters to automatically switch between a primary and backup transport stream in the event of a failure automatically preventing broadcasters from unexpectedly going off air as defined in the user configurable web interface.

It also converts transport streams between ASI, 310M & SMPTE 2022 Transport Streams over IP (TSoIP) formats. It accepts all three formats and will output all three formats simultaneously. It is controlled via a web server user interface and allows the user to configure trigger thresholds and monitor the unit status. Adhering to the concept of our TSACO family of products, the **TSACO-3000** is designed for easy operation.

The **TSACO-3000** has GPI/O, dual power supplies for reliability and is field upgradable. Transport stream encapsulation, forward error correction and UDP/RTP de-encapsulation as defined by the SMPTE 2022-1 specification.

FEATURES LIST

✓ Output signal maintains sync lock during switch transition so receivers don't lose lock

✓ Primary & backup inputs accept ASI, 310M & TSoIP

✓ Automatically detects input format & packet-size

✓ All outputs active simultaneously

✓ Controlled via web server user interface

✓ User configurable switch triggers: 14 different parameters & return to primary

✓ SNMP remote monitoring

✓ Remote input select & status indicator via web server user interface

✓ Manual front panel input select & reset button

✓ Relay bypass on primary input

✓ Rear panel GPI/O connector

✓ Field upgradable

✓ Dual power supplies for reliability

✓ Save/Load user defined/power up configurations

✓ User login management controls

SPECIFICATIONS

ASI

• Connector: BNC 75 ohm

• Data Rate to: 216 Mbps +/- 10ppm in, +/-3ppm out

• Logic Levels: 800mV +/-10%

• Data Rate: Accuracy: 3ppm

SMPTE 310M

• Connector: BNC 75 ohm

• Data Rate: 19.392658 Mbps

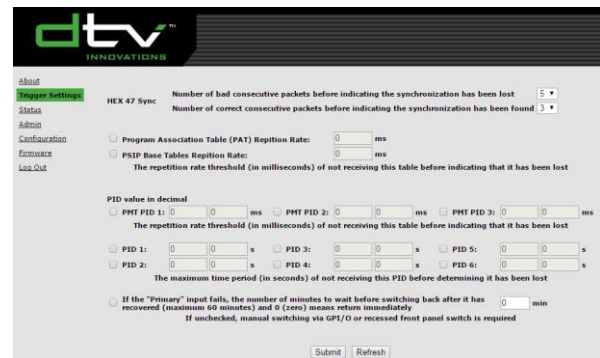• Format: Bi-phase mark coding

• Max jitter: 1ppm

SMPTE 2022

• Transport stream encapsulation UDP or RTP

• Transport stream packet size 188 or 204 bytes

• TS packet / IP packet 1-7

• FEC Size: L 1-20

• FEC Size: D 4-20

• FEC Size: LxD 4-100

Made in the USA

Network

• Single 100/1000 Base-TX Ethernet Port (RJ-45)

• User Interface – IP Configuration

• SNMP remote monitoring

Electrical

• Maximum Power: 25W

• Supply voltage range: 85-264 VAC/47-63HZ

• Power Plug: IEC-C-19

• Cooling Fan Capacity: 14 CFM side exhaust

Physical

• Height: 1.75 inches (44.45mm) 1RU

• Width: 19 inches (482.6mm)

• Depth: 14 inches (355.6mm)

• Weight: 4.6 Lbs (2.09kg)

• Ambient Temperature Operating: 32-104°F

VISION + INNOVATION