

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 as inputs 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 deencapsulation 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
- ✓ 4 Input Failover Switch Mode (Optional)
- ✓ 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

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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

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About Trigger Settings Status	HEX 47 Sync	Numb			tive packets bef		1000					5 ¥ und 3 ¥	
Admin Configuration	Program Association Table (PAT) Repition Rate:						ms						
Firmware	PSIP Base Tables Repition Rate:					0	ms						
<u>Les Out</u>	The re	petition n	ate thresh	old (in n	nilliseconds) of	not rec	eiving this	table bef	ore i	ndicating th	at it h	as been los	ŧ
	PID value in decimal												
	PMT PID	1: 0	0	ms	PMT PID 2	: 0	0	ms		PMT PID 3:	0	0	m
	The repetition rate threshold (in milliseconds) of not receiving this table before indicating that it has been lost												
	PID 1:	0	0	s	PID 3:	0	0	s		PID 5:	0	0	5
	D PID 2:	0	0		PID 4:	0	0			PID 6:	0	0	5
	The maximum time period (in seconds) of not receiving this PID before determining it has been lost I the "primary" input fails, the number of minutes to wait before switching back after it has recovered (maximum 66 minutes) and 0 (creo) means return immediately minutes).												
						GPI/O:	or recessed	front par	nel e				
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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

January 2025. Specifications subject to change without notice.



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