

## SUNNISKY SWI1000 Remote Redundancy 6 ASI Switch (6 groups TS Monitoring Switch)

SUNNISKY SWI1000 is an intelligent redundancy ASI switch which could realize the function of DVB-ASI TS Master-Slave redundant backup, also is named as TS (MPEG2 transport stream) monitoring switch. It could process independently 6 groups TS signals with ASI interface at same time, and every group includes two ASI input ports (one ASI **Master** input port and one ASI **Slave** input port), and two ASI output ports (one **Main-Master** output port and one mirror **Redundancy-Slave** output port with same TS signal). That is, SWI1000 could monitor the single program/service's work status of all 6 incoming **Master TS** signals respectively with real-time method, and activate 6 groups switch between **Master** and **Slave TS** input signal of every group correspondingly for health status and switch-over key features, which will be based on configurable switching criteria as ETR290 standard including the information of TS\_sync\_loss, PAT\_error, PMT\_error, PID\_error of TS signal, etc.

SWI1000 could automatically analyze the information on the PSI of the **Master TS** input signal, and it is been monitoring on every **Master TS** input signal. Each service (such as a Video/Audio program), can be setup as different condition to switch in order to get the better and safe and stability way of TS signals.

Specially, with 19"chassis and LCD display SWI1000 could transmit **Master TS** input signal normally to its **Main-Master** TS signal output even if SWI1000 is powered off or power fail in order to assure the reliability and security of total DVB TS system.

So SWI1000 could provide more reliable and robust DVB-TS systems as the actual TS signals are monitored, not only the hardware equipment health status. With compact size and powerful applications it is one cost-effective product designed for processing and handling of DVB-TS signal, and also provides an ideal solution for intelligent 1+1 redundancy switch-over between two DVB-TS signals.



### Feature

- Complies with DVB-ASI (EN50083) Standard
- Intelligent switch-over between 1 **Master** and 1 **Slave** DVB TS input signal with compact, cost-effective solutions
- Process 6 group DVB TS signals simultaneously in 1RU, every group includes two TS signals input (one **Master TS** and one **Slave TS**), and two TS signals output (one **Main-Master TS** and one mirror **Redundancy-Slave TS**)
- High performance with TS output bit-rates up to 160 Mbit/s for each group switch block
- Switch ASI TS automatically or manually
- ASI TS output will be passed through directly even if power loss or power supply failure
- Backup 12V DC power supply input
- 6 **Alarm** and 6 **Master TS (ASI IN)** signals simultaneous monitoring and error detection according to ETR290 specification, including programmable service parameters information, for example, TS\_sync\_loss, PAT\_error, PMT\_error, Programmable PID\_error of **Master TS** signal, etc. If only **Master TS** input signal of every group fails, and a particular service or PID is missing, at once SWI1000 will give an alarm and switch to **Slave TS (ASI IN)** input signal of every group:
  - ✓ Monitor the ETR290 parameters of ASI master input
  - ✓ Programmable service monitor of ASI master input
  - ✓ Programmable PID monitor of ASI master input
  - ✓ Alarm when switching to ASI slave if the ASI master Transport Stream fails or has error information
  - ✓ Alarm when switching to ASI slave if a particular service or a particular PID of the TS stream is missed

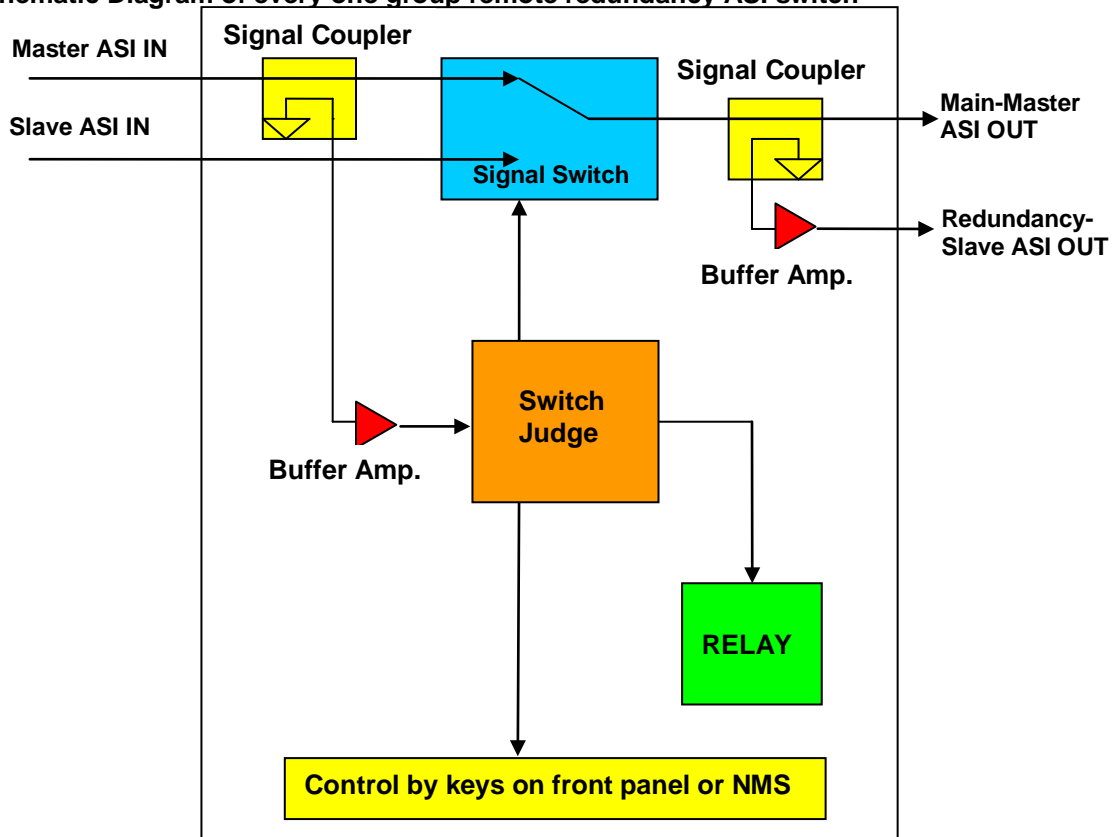
### Specification

ASI IN	
Interface	ASI port*12 (6 <b>Master</b> input ports and 6 <b>Slave</b> input ports), BNC connector, 75Ω

TS bit rate:	≤160Mbits/s
Packet length	188 or 204 byte, no RS decoding
Signal Level	800mVp-p
<b>ASI OUT</b>	
Interface	ASI port*12 (6 <b>Main-Master</b> output ports and 6 mirror <b>Redundancy-Slave</b> output ports), BNC connector, 75Ω
TS bit rate:	≤160Mbits/s
Packet length	188 or 204 byte, no RS decoding
Signal level	800mVp-p
<b>Other interface</b>	
RS-232	9 pin D-sub Type, Baud rate 9600~115200Kbps, for PC setup and software upgrade
Alarm	Major and Minor Alarm
Backup DC power supply	DC12V/2A input
<b>General</b>	
Operating temperature	0°C~40°C
Power requirement	AC 100~240V, 50Hz±2Hz, 20W
Net weight	3.5Kg
Gross weight	5Kg
Net Dimension	483mm×450mm×44mm
Dimension	550mm×510mm×170mm

Note: All specifications are subject to change without notice.

Schematic Diagram of every one group remote redundancy ASI switch



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