

SUNNISKY MUX1000 Professional DVB Re-multiplexer

The SUNNISKY MUX1000 is one professional DVB TS stream re-multiplexer which is specially designed to multiplex up to 8 ASI TS source streams, for example, MPEG-2 TS stream and other SPTS (single program transport stream) or MPTS (multiple program transport stream), and the other privacy data into four mirror MPTS (this four TS is the same) to output. Its key core is the re-adjustment of PCR (Program Clock Reference), the collection and re-structure of PSI/SI information on system layer to form the new PSI/SI information, then remapping PID and revising PCR, finally assembling them into the four mirror MPTS to output.

Because of the flexible modularized design, and the combination of PID-package-exchanging based on PID package switch technology, it can realize arbitrary switch from input to output, and can be extended to multiple-inputs and multiple-outputs switch multiplex system. During the process of re-multiplex, for the whole input TS streams it can complete PSI/SI generation as well as re-edition, PID remapping, and PID filtering. Moreover, it also supports various input information and the other services of TS stream, i.e. ECM / EMM stream of CA (Conditional Access) system, PSI/SI tables, inserted EPG information, etc. By 10/100BaseT Ethernet, it can realize TCP-IP remote control, upgrade and management.

As one critical instrument among all digital CATV broadcast system, the high flexibility, total compatibility, best stability and perfect performance of the SUNNISKY MUX1000, make it an ideal and the principal equipment for a wide range of re-multiplexing applications including DVB-C cable and DVB-T terrestrial regional, MMDS headend system etc.



Feature

- Complies with DVB ETSI /EN 300 468 ETR290 standard
- Eight ASI TS inputs which compatible with single channel SPTS and Multi Channel MPTS ASI stream, and performing the maximum Bit Rate 160Mb/s @ per channel input, also realizing arbitrary input TS backup
- Four duplicative ASI TS outputs
- Output ASI package length 204 or 188 selectable
- Up to 160 programs, and up to 20 PID @ per program
- Multiple methods for PSI/SI generating
- Support any PID transparent transport
- All PID filtering and remapping
- Editable partial PSI/SI information, for example, program name, program provider name and parsing and editing on the parameters in SDT and NIT table, etc.
- PSI/SI dynamic tables injector, including ECM \ EMM information of CA (Conditional Access) system and EPG to be inserted
- Very high efficiency multiplexing algorithms for absolute PCR precision and compatibility
- By PCR modification to constrain PCR jitter within 100ns
- Connect with outside scrambler, and scramble specified service with flexibility
- LCD display and user friendly operation
- Automatically restored after power failure
- By 10/100BaseT ethernet, it can realize real-time remote control, auto-alarm, upgrade on-line and parameter backup to PC
- Low power consumption

Specification

TS Input	
Input interface	DVB ASI*8, BNC, 75Ω
Input package length	188 or 204
Every input maximum Bit Rate	160Mbps
TS Output	

Output interface	DVB ASI*4, BNC, 75Ω
Output package length	188 or 204
Output amplitude	≤760mV
Output maximum Bit Rate	160Mbps
Warning way	LED on the front panel, and network management system by 10/100BaseT Ethernet while becoming light or dark on LCD display
PID package Exchange	
Every program supports maximum the quantity of PID	20
Maximum the quantity of programs	160
PID mapping way	Arbitrary input to arbitrary output
Analyze to TS stream	
PAT repeating interval	≤100ms
PMT repeating interval	≤100ms
SDT repeating interval	≤100ms
PTS/PCR time delay	160~500ms
PTS repeating interval	≤300ms
PCR jitter	≤100ns
PCR repeating interval	≤40ms
General	
Operating temperature	0°C~60°C
Power requirement	AC 220V±10%, 50Hz±2Hz, 50W
Weight	4.5Kg
Dimension	483mm×350mm×44mm

Note: All specifications are subject to change without notice.



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