

SUNNISKY TS2000HD-T/T2 H.264 Digital Multi-function DVB-T/T2 Terrestrial HD Processor & One way Gateway for DVB-ASI over IP

Based on open standards, SUNNISKY TS2000HD-T/T2 is one digital multi-function DVB-T/T2 COFDM HD processor with high level in technology and its application. Supporting MPEG-2/4/H.264 decoding, it can effectively receive DVB-T/T2 COFDM digital terrestrial TV signal, decode and output two ways independent TS stream signal simultaneously via its four ASI output interfaces, specially it has IP output port which could process the DVB-ASI over IP application which enables multiple TS stream signal feed to be carried over a IP network (6 TV programs as default, and 32 TV programs as Optional), besides analogue CVBS signal and stereo audio output, one Y/Pb/Pr and HDMI output, two digital SD/HD-SDI outputs embedded audio signal; It also has two ASI input interface too.

Specially, by aid of its two ASI Input interfaces it has cascade (simply Re-multiplexer) function (need to be activated), the demodulating of DVB-T/T2 COFDM, and generating TS signal by itself and the input TS signal from its ASI input interface, which comes from the other equipment, will be multiplexed and filtered out unwanted service/TV programs into only one MPTS TS signal output and IP output at the same time.

SUNNISKY TS2000HD-T/T2 has embedded Common Interface which could provide great support for a wide variety of CA systems, for example, Conax, CryptoWorks, Irdeto, Mediaguard, Nagravision and Viaccess, etc. That is, it could receive encrypted DVB-T/T2 COFDM digital terrestrial TV programs with the help of one Smartcard and PCMCIA CI module which has the function of multi-decryption, in order to decrypt them as free TS stream signal.

With 10/100BaseT Ethernet, the SUNNISKY TS2000HD-T/T2 could realize remote control and management function by aid of its NMS (network management software system, as Optional). And being adopted the latest technology in DVB (digital video broadcasting) and IP, and it is specially designed for digital HD cable/terrestrial TV system and IPTV network for all of worldwide operators in order to realize the triple play service including real-time video, voice and data over digital HD cable/terrestrial TV and IP network infrastructure with increased flexibility.



Feature

- Fully comply with DVB-T/T2 COFDM standard and MPEG-2 (MP@ML)、MPEG-4、H.264/AVC standard
- Support SD and HD digital terrestrial RF signal & TV programs receiving
- Linux Operating System, and ARM7 MCU
- Decrypts the conditional access systems encrypted, for example, Conax, CryptoWorks, Irdeto, Mediaguard, Nagravision and Viaccess CA, etc. with the two CI slots of PCMCIA
- Two CI slots of PCMCIA modules could work and descramble multi-program stream simultaneously (under the condition of multiple TV programs in one RF Frequency/Channel)
- Multi-descramble function together with PCMCIA module which could support multi-descramble
- Support VBI teletext (DVB ETSI 300 706) EBU and DVB subtitle
- NIT search
- PMT update automatically
- PID filtering
- PSI/SI edit and generate
- Alarm warning
- Two ASI input interfaces, the function of Re-Multiplexing (need to be activated), and realize the function of one way Gateway for DVB-ASI over IP
- Two independent TS stream signal outputs via four ASI ports with scrambled or non-scrambled stream
- Two ways Digital SD/HD-SDI video output ports embedded audio, and the second Audio could be setup to output
- One HDMI output
- Composite video (CVBS) output besides Y/Pb/Pr output

- 2 ways analogue Audio output, and could switch different Audio output modes
- Two ways Digital Audio AES/EBU output ports
- DVB-ASI over IP output with bit rate up to 70Mbits/s by 100M base-T
- Support UDP (User Datagram protocol) , and RTP
- IP transmission supports Unicast, Multicast modes (6 IP addresses-100Mbps Base-T as default, and 32 IP addresses-1000Mbps Base-T as Optional)
- Running continuously with excellent stability
- LCD display and user friendly operation
- Automatic recovery for latest system configuration due to expected or unexpected power off
- By 10/100BaseT Ethernet based on TCP/IP (optional), SNMP protocol, it can realize remote control, network management and parameters setup
- Software upgrade or link the other one to update via RS232 serial port

Specification

ANT. Signal Input and Tuner	
Signal Input and Output	Loop through
Demodulation	COFDM
Input frequency	VHF:104MHz~230MHz; UHF:470MHz~862MHz
Input level	-70dBmV ~ -20dBmV
Input impedance	IEC type, 75Ω
Tuner Bandwidth	6/7/8MHz (Selectable)
Channel Decoding	
Constellation	DVB-T: QPSK,16QAM,64QAM ; DVB-T2: QaPSK, 16QAM, 64QAM, 256QAM
FEC Decoder	DVB-T: 1/2, 2/3, 3/4, 5/6,7/8 with Constraint Length K=7; DVB-T2: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6
Guard Interval mode	DVB-T: 1/32,1/16,1/8,1/4, off; DVB-T2: 1/4, 5/32, 1/8, 5/64, 1/16, 1/32, 1/64, 1/128
OFDM Spectrum/FFT mode	DVB-T: 2K, 8K; DVB-T2: 1K, 2K, 4K, 8K, 16K, 32K
Input Symbol rate	4.98~31.67Mbit/s
Demultiplexer	
Standard	ISO/IEC 13818-2
Video decoding	
Standard	High Definition MPEG-4 H.264 / AVC
Aspect ratio	4:3 and 16:9 Full; 4:3 Letterbox
Video format	1920X1080i 50and 60; 1280X720P 50 and 60;720X480P 60; 720X576P 50; 525X480i 60; 625X576i 50
Audio decoding	
Standard	ISO/IEC 13818-3 MPEG-1 layer I and II
Decoding	MPEG-1 layer I and II, Musiacam Compression Format
Audio output mode	Stereo, Left, Right, Mono channel
Volume Level	32 Levels
Common Interface	
Standard	EN 50221
CI Module	JEIDA 4.0 PCMCIA type II*2
Support	Conax, CryptoWorks, Irdeto, Mediaguard, Nagravision and Viaccess CA, etc.
IP (DVB-ASI over IP) output	
Connector	RJ45,10M/100Mbps Base-T
Output bit rate	70Mbits/s (Max.)
UDP/RTP mode	Multicast or Unicast
Multicast control protocol	IGMP V2

ASI-TS input	
Interface	BNC connector*2, 75Ω
Signal level	800mVp-p
TS input available bit rate	≤160Mbps
Packet length	188 or 204
Data mode	Byte
ASI-TS output	
Interface	BNC connector*4, 75Ω
Signal level	1Vp-p±0.1V
Data transmission rate	270Mb/s
Packet length	188 or 204
Data mode	Byte
BNC Video Output	
Connector	BNC, 75Ω
Video output bandwidth	8MHz
Amplitude frequency response	±5%
Non Linearity	<6%
RCA Video and Audio Output	
Video output Connector	CVBS RCA*1, 75Ω
Video output level	1Vp-p
Audio output Connector	Audio RCA*2 (Left & Right) ;Low impedance,680Ω
SD/HD-SDI	
Connector	BNC Female *2, 75Ω
Data transmission rate	270Mb/s (Max.)
Max. output level	800mVp-p±10%
Digital Audio AES/EBU	
Connector	9-pin D-sub male*2
RS-232	
Connector	9-pin D-sub Female*1, Maximum of 115200bits/s
General	
Power supply	SMPS, 90V~240V AC @ 50Hz~60Hz, 25W
Dimension	483mm×350mm×45mm
Weight	5Kg

Note: All specifications are subject to change without notice.



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