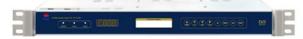
SUNNISKY TS1000-C/TS1000-CA Digital Cable DVB-C TS Integrated Receiving Decoder

With the latest technology in DVB, and incorporating the powerful single chip STi-5518, SUNNISKY TS1000-C and TS1000-CA are professional cost-effective digital cable integrated receiving decoders with TS (transport stream) output from two ASI ports, they have lots of field-proven features, for example, high reliability, exceptional stability and flexibility. They have embedded Common Interface which could provide great support for a wide variety of CA systems, for example, Conax, CryptoWorks, Irdeto, Mediaguard, Nagravision and Viaccess CA, etc. That is, it could receive various of being encrypted DVB-C/QAM TV programs with the help of one or two PCMCIA CI modules, and by aid of PCIMCIA and Smartcard together they could decrypt DVB-C/QAM TV programs as TS stream signal to output via ASI port besides via analogue AV output.

SUNNISKY TS1000-C is one model without ASI input interface; and SUNNISKY TS1000-CA is another model with ASI input interface, which could be switched to work between being input DVB-C/QAM cable TV signal to receive and decrypt or being input TS signal to decrypt from its ASI input.

So, SUNNISKY TS1000-C and TS1000-CA can effectively receive digital DVB-C/QAM cable TV signal, decode and output high-quality audio and video TV programs, and output two ways TS digital signal simultaneously via its two ASI output ports, and both are specially designed for digital cable or satellite or terrestrial, etc. network.



Feature

- Fully DVB-C and MPEG-2 compliant
- Powerful single chip STi-5518
- 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
- Symbol rate supported from 3.5 to 7Mbaud
- Two TS output via two ASI ports with scrambled or non-scrambled stream
- Composite video (CVBS) output and BNC video output (with OSD)
- ullet XLR connector for balanced 600 Ω audio output, and RCA connector for unbalanced audio output
- Video PID and audio PID setup
- Support VBI teletext (DVB ETSI 300 706) and caption function (Optional)
- Forcible PAL/NTSC/AUTO conversion
- Multi-language support, for example, English, Chinese etc.
- Multi-language Audio
- Friendly operation and control for user
- Running continuously with excellent stability
- Automatic recovery for latest system configuration due to expected or unexpected power off
- Software upgrade or link the other one to update via RS232 serial port

Specification

RF Signal Input and TUNER	
Signal input and output	Loop through
Input frequency	47~862MHz
Input level	45~90dBμV
Input impedance	F type, $75Ω$
Channel Decoding	
Complies with	DVB-C standard

Demodulation mode 16/32/64/128/256 QAM Input Symbol rate 3.5-7Mbaud				
Demultiplexer Standard ISO/IEC 13818-2 Video decoding Standard ISO/IEC 13818-2; MPEG-2 MP@ML Aspect radio 4:3, 16:9 Video format 720X576@ PAL; 720X480 @NTSC Audio decoding ISO/IEC 13818-3 Beccoding MPEG-1 layer I and II Audio output mode Stereo, Dual, Mono channel Volume Level 32 Levels Memory PUBDRAM AV SDRAM 4Mbyte FLASH memory 2Mbyte Common Interface Standard Standard EN 50221 CI Module JEIDA 4.0 PCMCIA type II*2 Support Conax. CryptoWorks, Irdeto, Mediaguard, Nagravision and Viaccess CA, etc. Control Microprocessor Chip SGS-Thomson STi5518, 81MHz Clock Frequency Video buffer 64Mbits SDRAM ASI-TS output Connector Connector BNC*2, 75Ω Output Level 1Vp-p±0.11V Data Transmission Rate 270Mb/s Packet Length 188 or 204 Data Transmission Rate 270Mb	Demodulation mode	16/32/64/128/256 QAM		
Standard ISO/IEC 13818-2	Input Symbol rate	3.5~7Mbaud		
Video decoding Standard ISO/IEC 13818-2; MPEG-2 MP@ML	Demultiplexer	Demultiplexer		
Standard	Standard	ISO/IEC 13818-2		
Aspect radio 4:3, 16:9	Video decoding			
Video format	Standard	ISO/IEC 13818-2; MPEG-2 MP@ML		
Standard	Aspect radio	4:3, 16:9		
Standard ISO/IEC 13818-3	Video format	720X576@ PAL; 720X480 @NTSC		
Decoding				
Audio output mode Stereo, Dual, Mono channel Volume Level 32 Levels Memory CPU SDRAM 8Mbyte AV SDRAM 4Mbyte FLASH memory 2Mbyte Common Interface Standard Standard EN 50221 CI Module JEIDA 4.0 PCMCIA type II*2 Support Conax, CryptoWorks, Indeto, Mediaguard, Nagravision and Viaccess CA, etc. Control Microprocessor and Memory Microprocessor Chip SGS-Thomson STi5518, 81MHz Clock Frequency Video buffer 64Mbits SDRAM ASI-TS output Connector Connector BNC*2, 75Ω Output Level 1Vp-p±0.1V Data Transmission Rate 270Mb/s Packet Length 188 or 204 Data Mode Byte BNC Video Output Video Output bandwidth Amplitude frequency response 45% Non Linearity <6%	Standard	ISO/IEC 13818-3		
Audio output mode Stereo, Dual, Mono channel Volume Level 32 Levels Memory CPU SDRAM 8Mbyte AV SDRAM 4Mbyte FLASH memory 2Mbyte Common Interface Standard Standard EN 50221 CI Module JEIDA 4.0 PCMCIA type II*2 Support Conax, CryptoWorks, Indeto, Mediaguard, Nagravision and Viaccess CA, etc. Control Microprocessor and Memory Microprocessor Chip SGS-Thomson STi5518, 81MHz Clock Frequency Video buffer 64Mbits SDRAM ASI-TS output Connector Connector BNC*2, 75Ω Output Level 1Vp-p±0.1V Data Transmission Rate 270Mb/s Packet Length 188 or 204 Data Mode Byte BNC Video Output Video Output bandwidth Amplitude frequency response 45% Non Linearity <6%	Decoding	MPEG-1 layer I and II		
Memory CPU SDRAM 8Mbyte AV SDRAM 4Mbyte FLASH memory 2Mbyte Common Interface Standard EN 50221 CI Module JEIDA 4.0 PCMCIA type II*2 Support Conax, CryptoWorks, Irdeto, Mediaguard, Nagravision and Viaccess CA, etc. Control Microprocessor and Memory Microprocessor Chip Microprocessor Chip SGS-Thomson STi5518, 81MHz Clock Frequency Video buffer 64Mbits SDRAM ASI-T3 output Connector Connector BNC*2, 75Ω Output 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%	Audio output mode			
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AV SDRAM	Memory			
AV SDRAM	CPU SDRAM	8Mbyte		
Common Interface Standard EN 50221 CI Module JEIDA 4.0 PCMCIA type II*2 Support Conax, CryptoWorks, Irdeto, Mediaguard, Nagravision and Viaccess CA, etc. Control Microprocessor and Memory Microprocessor Chip Microprocessor Chip SGS-Thomson STi5518, 81MHz Clock Frequency Video buffer 64Mbits SDRAM ASI-TS output Connector Connector BNC*2, 75Ω Output Level 1Vp-p±0.1V Data Transmission Rate 270Mb/s Packet Length 188 or 204 Data Mode Byte BNC Video Output BNC, 75Ω Video output bandwidth 8MHz Amplitude frequency response 45% Non Linearity <6%	AV SDRAM	4Mbyte		
Standard EN 50221 CI Module JEIDA 4.0 PCMCIA type II*2 Support Conax, CryptoWorks, Irdeto, Mediaguard, Nagravision and Viaccess CA, etc. Control Microprocessor and Memory Microprocessor Chip SGS-Thomson STi5518, 81MHz Clock Frequency Video buffer 64Mbits SDRAM ASI-TS output Connector BNC*2, 75Ω Output Level 1Vp-p±0.1V Data Transmission Rate 270Mb/s Packet Length 188 or 204 Data Mode Byte BNC Video Output Tonnector Video Output bandwidth 8MHz Amplitude frequency response ±5% Non Linearity <6%	FLASH memory	2Mbyte		
CI Module JEIDA 4.0 PCMCIA type II*2 Support Conax, CryptoWorks, Irdeto, Mediaguard, Nagravision and Viaccess CA, etc. Control Microprocessor and Memory SGS-Thomson STi5518, 81MHz Clock Frequency Video buffer 64Mbits SDRAM ASI-TS output Connector BNC*2, 75Ω Output 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 Video output level 1Vp-p Audio output Connector Audio RCA*2 (Left & Right) ;Low impedance,680Ω Audio XRL Balance Output Connector RCA*2 (Left and Right Track) Audio output impedance 600Ω RS-232 Connector 9-pin D-sub male, Maximum of 625K bits/s General Power supply SMPS, 90V~240V AC @ 50Hz~60Hz, 25W Dimension A83mm×440mm×45mm	, ,			
Support Conax, CryptoWorks, Irdeto, Mediaguard, Nagravision and Viaccess CA, etc. Control Microprocessor Chip SGS-Thomson STi5518, 81MHz Clock Frequency Video buffer 64Mbits SDRAM ASI-TS output Connector BNC*2, 75Ω Output Level 1Vp-p±0.1V Data Transmission Rate 270Mb/s Packet Length 188 or 204 Data Mode Byte BNC Video Output SNC, 75Ω Video output bandwidth 8MHz Amplitude frequency response ±5% Non Linearity <6%	Standard	EN 50221		
Control Microprocessor and MemoryMicroprocessor ChipSGS-Thomson STi5518, 81MHz Clock FrequencyVideo buffer64Mbits SDRAMASI-TS outputSGS-Thomson STi5518, 81MHz Clock FrequencyConnectorBNC*2, 75ΩOutput Level1Vp-p±0.1VData Transmission Rate270Mb/sPacket Length188 or 204Data ModeByteBNC Video Output8MHzConnectorBNC, 75ΩVideo output bandwidth8MHzAmplitude frequency response±5%Non Linearity<6%	CI Module	JEIDA 4.0 PCMCIA type II*2		
Microprocessor Chip SGS-Thomson STi5518, 81MHz Clock Frequency Video buffer 64Mbits SDRAM ASI-TS output Connector BNC*2, 75Ω Output Level 1Vp-p±0.1V Data Transmission Rate 270Mb/s Packet Length 188 or 204 Data Mode Byte BNC Video Output Connector Video output bandwidth 8MHz Amplitude frequency response ±5% Non Linearity <6%	Support	Conax, CryptoWorks, Irdeto, Mediaguard, Nagravision and Viaccess CA, etc.		
Video buffer64Mbits SDRAMASI-TS outputBNC*2, 75ΩOutput Level1Vp-p±0.1VData Transmission Rate270Mb/sPacket Length188 or 204Data ModeByteBNC Video OutputConnectorBNC, 75ΩVideo output bandwidth8MHzAmplitude frequency response±5%Non Linearity<6%				
ASI-TS output Connector BNC*2, 75Ω Output Level 1Vp-p±0.1V Data Transmission Rate 270Mb/s Packet Length 188 or 204 Data Mode Byte BNC Video Output 0.00 Video output bandwidth 8MHz Amplitude frequency response ±5% Non Linearity <6%	Microprocessor Chip	SGS-Thomson STi5518, 81MHz Clock Frequency		
Connector BNC*2, 75Ω Output Level 1Vp-p±0.1V Data Transmission Rate 270Mb/s Packet Length 188 or 204 Data Mode Byte BNC Video Output 0.00 Video output bandwidth 8MHz Amplitude frequency response ±5% Non Linearity <6%	Video buffer	64Mbits SDRAM		
Output 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%	ASI-TS output			
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%	Connector	BNC*2, 75Ω		
Packet Length188 or 204Data ModeByteBNC Video OutputConnectorBNC, 75ΩVideo output bandwidth8MHzAmplitude frequency response±5%Non Linearity<6%	Output Level	1Vp-p±0.1V		
Data ModeByteBNC Video OutputConnectorBNC, 75ΩVideo output bandwidth8MHzAmplitude frequency response±5%Non Linearity<6%RCA Video and Audio OutputVideo output ConnectorCVBS RCA*1, 75ΩVideo output level1Vp-pAudio output ConnectorAudio RCA*2 (Left & Right) ;Low impedance,680ΩAudio XRL Balance OutputConnectorRCA*2 (Left and Right Track)Audio output impedance600ΩRS-232Connector9-pin D-sub male, Maximum of 625K bits/sGeneralPower supplySMPS, 90V~240V AC @ 50Hz~60Hz, 25WDimension483mmx440mmx45mm	Data Transmission Rate	270Mb/s		
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ConnectorBNC, 75ΩVideo output bandwidth8MHzAmplitude frequency response±5%Non Linearity<6%	Data Mode	Byte		
Video output bandwidth8MHzAmplitude frequency response±5%Non Linearity<6%	BNC Video Output			
Amplitude frequency response±5%Non Linearity<6%	Connector	BNC, 75Ω		
Amplitude frequency response±5%Non Linearity<6%	Video output bandwidth	8MHz		
RCA Video and Audio OutputVideo output ConnectorCVBS RCA*1, 75ΩVideo output level1Vp-pAudio output ConnectorAudio RCA*2 (Left & Right) ;Low impedance,680ΩAudio XRL Balance OutputRCA*2 (Left and Right Track)ConnectorRCA*2 (Left and Right Track)Audio output impedance600ΩRS-232Connector9-pin D-sub male, Maximum of 625K bits/sGeneralPower supplySMPS, 90V~240V AC @ 50Hz~60Hz, 25WDimension483mm×440mm×45mm		±5%		
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Video output level1Vp-pAudio output ConnectorAudio RCA*2 (Left & Right); Low impedance, 680ΩAudio XRL Balance OutputRCA*2 (Left and Right Track)ConnectorRCA*2 (Left and Right Track)Audio output impedance600ΩRS-232Connector9-pin D-sub male, Maximum of 625K bits/sGeneralPower supplyPower supplySMPS, 90V~240V AC @ 50Hz~60Hz, 25WDimension483mm×440mm×45mm	RCA Video and Audio Output			
Audio output Connector Audio RCA*2 (Left & Right); Low impedance,680Ω Audio XRL Balance Output Connector RCA*2 (Left and Right Track) Audio output impedance 600Ω RS-232 Connector 9-pin D-sub male, Maximum of 625K bits/s General Power supply SMPS, 90V~240V AC @ 50Hz~60Hz, 25W Dimension 483mm×440mm×45mm	Video output Connector	CVBS RCA*1, 75Ω		
Audio XRL Balance OutputConnectorRCA*2 (Left and Right Track)Audio output impedance600ΩRS-232Connector9-pin D-sub male, Maximum of 625K bits/sGeneralPower supplySMPS, 90V~240V AC @ 50Hz~60Hz, 25WDimension483mm×440mm×45mm	Video output level	1Vp-p		
ConnectorRCA*2 (Left and Right Track)Audio output impedance600ΩRS-232Connector9-pin D-sub male, Maximum of 625K bits/sGeneralPower supplySMPS, 90V~240V AC @ 50Hz~60Hz, 25WDimension483mm×440mm×45mm	Audio output Connector	Audio RCA*2 (Left & Right) ;Low impedance,680Ω		
Audio output impedance600ΩRS-2329-pin D-sub male, Maximum of 625K bits/sGeneralSMPS, 90V~240V AC @ 50Hz~60Hz, 25WDimension483mm×440mm×45mm	Audio XRL Balance Output			
RS-232 Connector 9-pin D-sub male, Maximum of 625K bits/s General Power supply SMPS, 90V~240V AC @ 50Hz~60Hz, 25W Dimension 483mm×440mm×45mm	Connector	RCA*2 (Left and Right Track)		
Connector 9-pin D-sub male, Maximum of 625K bits/s General Power supply SMPS, 90V~240V AC @ 50Hz~60Hz, 25W Dimension 483mm×440mm×45mm	Audio output impedance	600Ω		
General Power supply SMPS, 90V~240V AC @ 50Hz~60Hz, 25W Dimension 483mm×440mm×45mm	RS-232			
Power supply SMPS, 90V~240V AC @ 50Hz~60Hz, 25W Dimension 483mm×440mm×45mm	Connector	9-pin D-sub male, Maximum of 625K bits/s		
Dimension 483mm×440mm×45mm	General			
	Power supply	SMPS, 90V~240V AC @ 50Hz~60Hz, 25W		
Weight 4.6Kg	Dimension	483mm×440mm×45mm		
	Weight	4.6Kg		

Note: All specifications are subject to change without notice.

