

IRD Professional Satellite TS Receiver

The IRD Professional Satellite TS Receiver is a new compact (1RU only) chassis and cost-effective satellite TS receiver. RD Professional Satellite TS Receiver is a professional IRD with a variety of input (including QPSK, DVB over ASI, IP) and output (CVBS, SDI, ASI and IP) combinations. It can receive DVB-S2/S and ASI formats of the free and the encrypted digital television/digital audio program and output MPEG-2 TS stream. An appropriate IP port equipped as an option supports DVB over IP applications. IRD Professional Satellite TS Receiver has very convenient and friendly management interface, the user can complete all operation via local keyboard and LCD display on device, or access through the Ethernet port on device.



Features

- SCPC/MCPC and C/Ku band compatible
- Compatible with MPEG-2 MP@ML
- Supports PAL, NTSC or SECAM
- Supports TS over IP 100M input/output (IP modules optional)
- With two common interface slot
- Multi-channel encrypted programs by the specific CAM
- Supports various CAS (Conax, Cryptoworks, Irdeto, NDS, Mediaguard, SECA, Viaccess, Compunicate, etc.)
- SDI video output with digital audio embedded
- Two sets of independent ASI outputs
- Teletext VBI, EBU subtitle and DVB subtitle
- DiSEqC1.2, choose channel fast, multi-satellite multi-LNB function
- Memory protection for power-fail
- Multi-languages and interfaces for choosing
- Local keyboard control and LCD display, or access via Ethernet link

Application

- Receiving of digital TV programs from satellite
- TS OVER IP digital headend system

Compliant

- EN 50083-9
- ETSI TR 101 154
- ETSI TR 101 891
- EN 300 429
- ITU-T J.83A
- IEEE-802.3

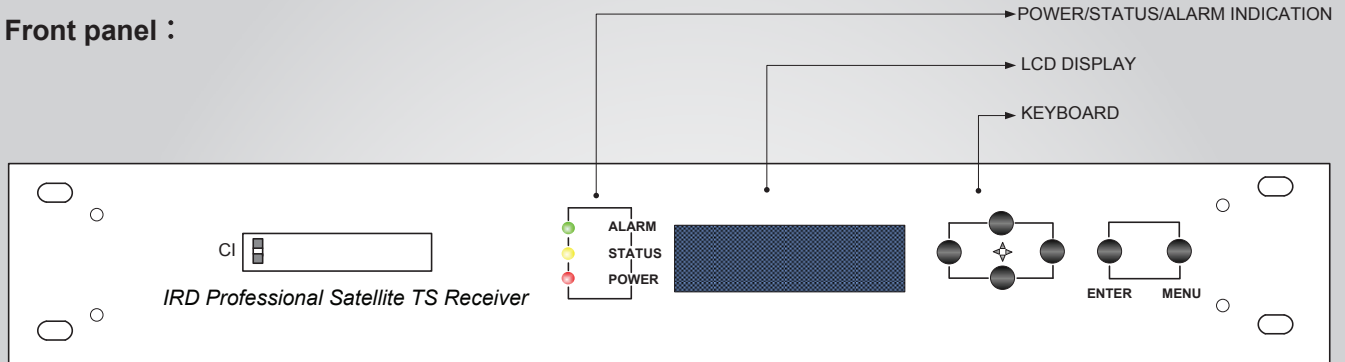


ZORA
Satellite & CATV equipment
www.zora.com.mk

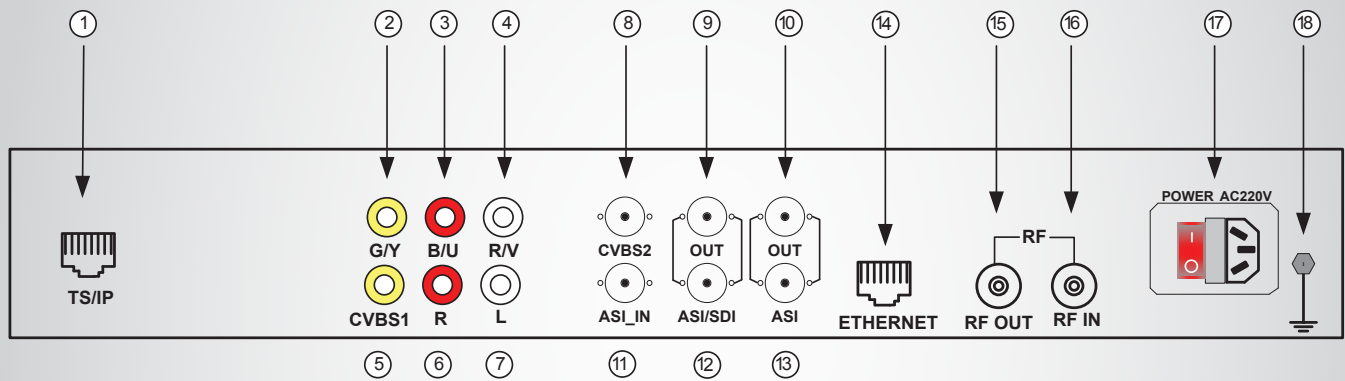
Table 2 – Technical Specifications

Parameter	Symbol	Description	Unit	Remark
CI Interface				
Descramble processing	-	Support for the European DVB-CSA		
Smart Card interface	-	ISO7816		
Device exclusive card	-	PCMCIA		
Channel Coding				
RS Coding	-	RS (204,188)		
Convolution Interleaving Depth	-	I=12		
Square Root Raised Cosine Roll-off FIR Filter Coefficient	-	0.35/0.25/0.2		
Input Interface				
RF Signal Input	-	F-Female		with RF loop out
ASI Signal Input		BNC-Female,75Ω		
Output Interface				
Video Signal Output 1	-	Compound Video Broadcast Signal : RCA 75Ω		
Video Signal Output 2	-	Compound Video Broadcast Signal : BNC-Female,75Ω		
Audio Signal Output 1	-	RCA:600Ω unbalance low-resistance, R/L		
ASI Output	-	1×2-way : BNC-Female,75Ω		
SDI Output	-	1×2-way : BNC-Female,75Ω		
TS IP input/output	-	RJ45 100Base-T		≤ 70Mb/s; Support IGMPV2, Multicast/ Unicast
Human-computer Interaction	-	LCD and OSD interface		
Audio Decode				
Sound Decode	-	MPEG-I Layer I and II		
Audio Operating Mode	-	Single Track/ Double Track/Stereo		
Audio Sampling Frequency	-	32/44.1/48	KHz	
Video Decode				
Video Format	-	4:3, 16:9		
Resolution	-	MAX 720 x576		
Video Mode	-	PAL/NTSC /SECAM		
Video Decoding Mode	-	MPEG-2 MP@ML		
Image Resolution	-	720*576 (PAL) 720*480 (NTSC)		
Video Output Range	-	800±80	mVp-p	
Video Synchronization Range	-	300±20	mVp-p	
Line Synchronization Front Dithering	-	≤20		
Video Frequency Feature	-	±0.5	dB	(≤4.8MHz)
Differential Gain (p-p)	-	≤5	%	
Differential Phase (p-p)	-	≤5		
Video SNR	-	≥56	dB	
Brightness nonlinear	-	±2.1	%	
Chroma and Brightness Gain	-	±5	%	
Chroma and Brightness Delay	-	≤30	ns	
K Coefficient	-	≤3	%	

Front panel :



Rear panel :



① TS/IP	TS/IP Input/Output interface, selected by the OSD menu	⑪ ASI IN	ASI input interface
②③④ Y/U/V or G/B/R	Y/U/V or G/B/R output interface	⑭ ETHERNET	Ethernet interface for NMS
⑤ CVBS1	CVBS1 output interface, RCA interface	⑮ RF OUT	Tuner Loop Out interface
⑥⑦ R/L	Analog R/L Audio interface, RCA interface	⑯ RF IN	Tuner In interface
⑧ CVBS2	CVBS2 output interface, BNC interface, the same as 5	⑰ POWER/AC 220V	Power socket
⑨⑫ ASI/SDI OUT	ASI2/SDI output interface, selected by the menu	⑱ GND	Grounding
⑩⑬ ASI OUT	ASI1 output interface		