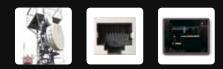


ESE-01b DVB-S/S2 Professional IRD





ESE-01b R2 2k14

DESCRIPTION

The ESE-01b is the evolution of ESE-01, designed for the high-end TV and radio distribution market, where quality and reliability are key features. The development of digital satellite contribution networks and the need to connect a large number of sites require a cheap but still reliable and performing satellite receiver with integrated decoder; the Elber IRD (Integrated Receiver Decoder) ESE-01b offers professional performances at an excellent quality/price ratio. The ESE-01b operates as receiver, decoder or both; as receiver, it demodulates any DVB-S or DVB-S2 signal with no limitations in terms of modulation scheme and configuration (single/multistream), giving ASI and TSoIP outputs. As decoder, it accepts the demodulated signal, 2 x ASI or TSoIP inputs, decoding one service from the TS. The basic version has been optimized for radio applications, giving just 1 stereo pair (in analog and AES-EBU format) with a CVBS video output. Advanced version is for television applications, with HD-SDI dual outputs and additional stereo pair. Video decoder accepts MPEG-2 and H.264 4:2:0 signals, HD and SD, while audio decoding formats supported are MPEG-1 LI/II, MPEG-2 LII, MP3, MPEG-4 AAC-LC or MPEG4 AACplus; BISS 0/1/E descrambling is also supported.

The device can be easily managed through the local user interface (a modern touchscreen display) or remotely through the web interface and SNMP. The ESE-01b is very compact and lightweight and can be equipped with both AC and DC (10-13VDC) input power.

FEATURES

- Self-contained compact solution (1U Rack 19")
- DVB-S/S2 Receiver Single stream and Multi stream
- L-band input
- Optional ASI and TSoIP inputs and outputs
- Basic version optimized for radio contribution over satellite
- Advanced features with HD-SDI outputs
- BISS 0/1/E optional
- TFT front panel control
- Embedded Linux OS
- AC and DC inputs
- WEB interface, SNMP v2 and GPIO

SPECIFICATIONS

Inputs	Audio							
Standards:	ETSI EN 300 421 (DVB-S)	Audio Decoding:		IPEG-1	layer I/II, MI	P3, MPEG-2 layer II,		
	ETSI EN 302 307 (DVB-S2)		Ν	IPEG-4	AAC-LC, MP	EG-4 AAC Plus		
Input connector: F-type connector 75 ohm		Analog interfaces: 2 x analog baland			og balanced	on XLR connector		
RF Input:	L-band with LNB control and		2	x analo	og balanced	on DB25 connector(*)		
	loop-through output							
Frequency range:	950-2150 MHz	Digital audio:	2	x AES/	EBU-SPDIF (on XLR connector		
RF input level:	-10 to -87 dBm	2 x AES/EBU-SPI			EBU-SPDIF	DIF on DB25 connector(*)		
Symbol Rate:	1-45 Msymb/s	HD-SDI embedde			embedded (*	*)		
FEC:	all (auto)	<u>Control</u>						
Constellation:	QPSK, 8PSK, 16APSK, 32APSK	Front panel (TFT touchscreen display)						
DVB-S2 support:		Web browser (embedded http server, no additional software needed)						
Mode:	CCM, VCM, ACM, Normal/Short	SNMP v2	SNMP v2					
	FEC frames	Electrical	rical					
BB header processing	: ISSY short/long, NPD							
Mode Adaptation(*):	Multistream reception with ISI field	Supply: 100-240 V~ 50/60 Hz, IE			C 320			
PLS:	Physical Layer Scrambling		10 ÷ 13 V DC, 2 pins plug					
	support ('n' sequence number)							
Baseband*:		Consumption:	12W	(basic)				
Inputs:	2 x DVB-ASI on BNC(f) connector, 75		16W (advanced)					
	Ohm	Mechanical						
	1 x TSoIP on RJ-45 connector							
Outputs:	2 x DVB-ASI on BNC(f) connector, 75	Chassis:	sis: 1U Rack 19"					
	Ohm	Dimensions:						
	1 x TSoIP on RJ-45 connector		Width	1	482.5 mn	ı		
Video			Heigh		43.65 mn	ı		
			Depth		220 mm			
Video Decoding:	MPEG-2 HD/SD 4:2:0	Weight:	2.5 K	g				
	H.264 HD/SD 4:2:0							
Video formats: PAL, NTSC, SECAM		Environmental						
Analog video interfaces:	1 composite on BNC connector (HD			_				
	downscaling)	Operative Temperature Range:				-10 ÷ 55°C		
Digital video interfaces(*):	2 x HD-SDI on BNC connector	Relative humidity:				0 - 95% non condensing		

ORDERING INFO:

Code	CVBS	Audio Analog	Audio Digital	DVB-ASI	TSoIP in	TSoIP out	Multistream	HD/SD-SDI	2nd audio channel
ESE-01-BA	v	v							
ESE-01-BB	v	v	v						
ESE-01-BC	v	v	v				v		
ESE-01-BD	v	v	v	v			v		
ESE-01-BE	v	v	v	v	v		v		
ESE-01-BF	v	v	v	v	v	v	v		
ESE-01-BG	v	v	v	v	v	v	v	v	v
ESE-01-BM	v	v	v	v	v	v	v		v



*Elber reserves the right to make changes to specifications of products described in this datasheet at any time without notice and without obligation to notify any person of such changes.

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(*) options, see ORDERING INFO or contact sales@elber.it