

DSR02 Version 2010 Digital Satellite Receiver

Professional DVB-S, DVB-S2 and DSS audio receiver



Transportstream inputs

- DVB-S 1-45 Msym/s
- DVB-S/S2 128 Ksym/s...45 Msym/s single and multiple channel per carrier
- ASI
- Gigabit IP

Redundancy/local commercials

- Optional: IP Audio Input combined with enhanced memory as additional back-up solution

Audio output

- Balanced analogue and digital AES/EBU (switchable 15KHz low-pass)

Data output

- 4x Serial (e.g. RDS, DRM)
- MPE decoding via Gigabit IP

Transportstream output

- ASI (only available for DSR02)
- Gigabit IP (only available for DSR02)

Decoding

- 2x Audio decoding:
MPEG 1/2 Layer 1, 2, 3 (optional:
MPEG 2/4 AAC LC, HEV1&v2 and
AC3)
- RDS decoding (built in RDS/UECP decoder)

Control

- Via webinterface
- Via satellite carrier (satellite inband control)
(e.g. changing configuration, trigger commercials, relay switching)
- SNMP v2c

Decryption

- On request: CAM Conditional Access Modul or BISS

Monitoring

- RF and MPEG parameters via SNMP v2c and relay
- Monitoring of up to eight audio programs via IP



1. Harmony FM	[1036]	[AUDIO1]	<input type="button" value="configure"/>
2. H.FM(TMC)	[1037]	DTE1	<input type="button" value="configure"/>
3. H.FM(Clock)	[1035]	[PCR1]	<input type="button" value="configure"/>
4. Hit Radio	[1024]	[AUDIO2] [X.21]	<input type="button" value="configure"/>
5. H.R.(TMC)	[1023]	DTE2	<input type="button" value="configure"/>
6. H.R.(Clock)	[1025]	[PCR2]	<input type="button" value="configure"/>
7.	[0]		<input type="button" value="configure"/>
8.	[0]		<input type="button" value="configure"/>

PID

Very straight forward and easy - but nevertheless flexible way of decoder-configuration

Alarm Settings

Extensive alarming possibilities, via SNMP or relays contacts - with flexible alarm levels and times

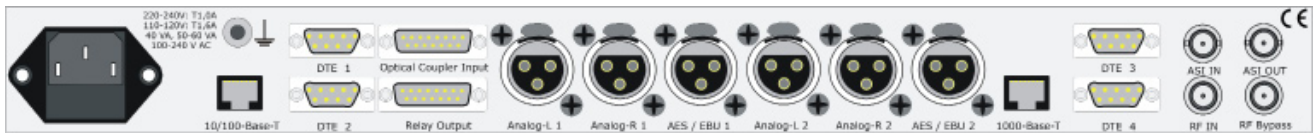
warning LED on <input checked="" type="checkbox"/>	alarm enable <input checked="" type="checkbox"/>	state
SNMP + Relay 2	T1 1 s	T2 1 s
warning LED on <input checked="" type="checkbox"/>	alarm enable <input checked="" type="checkbox"/>	state
SNMP	> 0.00E-0	
T1 1 s	T2 1 s	
warning LED on <input checked="" type="checkbox"/>	alarm enable <input checked="" type="checkbox"/>	state
SNMP	< 0 db	
T1 1 s	T2 1 s	
warning LED on <input checked="" type="checkbox"/>	alarm enable <input type="checkbox"/>	state
SNMP	T1 1 s	T2 1 s
warning LED on <input checked="" type="checkbox"/>	alarm enable <input type="checkbox"/>	state

System parameter

Nr.	Timestamp	Message
1	2008-08-20 14:39:09	DTE no. 1 alarm. State: OK
2	2008-08-20 14:39:09	Audio no. 2 alarm. State: OK
3	2008-08-20 14:39:09	Audio no. 1 alarm. State: OK
4	2008-08-20 14:39:09	TS alarm. State: OK
5	2008-08-20 14:39:09	C/N alarm. State: OK
6	2008-08-20 14:39:09	Viterbi BER alarm. State: OK
7	2008-08-20 14:39:09	RF unlogged alarm. State: OK
8	2008-08-20 14:39:09	RF input alarm. State: OK

Error Log

Long time report of all occurred alarm-events to provide objective evidence of the system



DSR02 Version 2010 Digital Satellite Receiver – Technical Details

Format Specification	DVB-S, DSS ETS 300421 DVB-S	Data interfaces Remote control input	7 opto isolated inputs 15 pole sub-D female
Inputs		Remote control output	8 standard (SPST), 2 change-over (SPDT) relays (for DC: max. 24 V, 1 A, 10 W), 26 pole sub-D male
RF	F-jack	Serial Data	5 x RS-232C (1 front, 4 rear) Private data or MPEG ancillary data (IRT)
option1: DVB-S		Connector	9 pole sub-D male
RF input frequency	950...2.150 MHz	Transmission rate	1200 to 115200 baud, asynchronous
Input Level	-82...-10 dBm		
Impedance	75 Ω		
Modulation	QPSK / BPSK		
Symbol rate	1...45 Msym/s		
LNB voltage	0V, 13V, 18V		
LNB control	DiSEqC™ v1.x / v2.x		
Error correction	Forward 1/2, 2/3, 3/4, 5/6, 7/8		
option2: DVB-S/DVB-S2		TCP/IP	
DVB-S		Data	Controlling and Setup functions output of: - Private data, - MPEG ancillary data (IRT), - MPEG audio stream
Symbol rate	QPSK (0.1...45 Msym/s)	Connector	input of: - MPEG audio stream
Modulation	1/2, 2/3, 3/4, 5/6, 6/7, 7/8	Type	RJ 45
Roll-off	0.20, 0.35	Data format	full duplex 10/100 BASE-T HTTP, SNMP, SMTP, UDP
FEC	Viterbi and Reed Solomon		
DVB-S2		Gigabit IP output	
Symbol rate	QPSK (0.1...35 Msym/s)	Data	MPEG TS or MPE
Modulation	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, .8/9, 9/10	Connector	RJ 45
Symbol rate	8PSK (0.1...31 Msym/s)	Type	full duplex 10/100/1000 BASE-T
Roll-off	3/5, 2/3, 3/4, 5/6, 8/9, 9/10	Data Format	UDP/RTP UDP
FEC	LDPC and BCH		
ASI input		ASI output	
Data	MPEG2 TS	Data	MPEG2 TS
Connector	BNC 270 Mbps	Connector	BNC 270 Mbps
Audio		Control	
Digital reference	-9 dBFS (adjustable)	Web menu	HTTP, at least 3 users, 2 levels
Volume	-32...+6 dB	Satellite inband control (SIC)	2wcom professional SIC (optional: request for information)
Filtering	Switchable 15 kHz Low-Pass	Front panel	LCDisplay 2 x 40 characters Jog wheel
Digital	AES/EBU, 110 Ω bal., XLR 1 x Stereo (optional 2 x Stereo)		8 LEDs: Power, Signal, Status, Alarm, Warning, Remote, Audio, Data
Analogue	L/R, < 20 Ω bal., XLR 1 x Stereo (optional 2 x Stereo)	SNMP	v2c
Headphone	L/R, < 10 Ω, 6.3 mm		
MPEG decoding		General data	
No. of decoders	Up to 2	Power consumption	20 VA
Adjustable Delay	10...2000 ms	Case dimensions	19", 1 HU, depth: 310 mm, width: 424 mm, front panel: 484 mm
Format	MPEG PES or MPE	Weight	5.5 kg
Codecs	MPEG 1&2 Layer 1, 2, 3 Dolby digital AC3 (Loopthrough) MPEG 2/4 AAC LC MPEG 4 AAC HE v1 & v2 AC3 (Stereo Downmix) ask for other codecs MP3 Files with ID3 Tags	Housing	steel plate
optional:		Rated temp. range	+5°...+45°C
		Operating temp. range	0°...+50°C
		Storage temp. range	-40°...+70°C
Audio level	+12dBu	Power supply	internal, 100 V...230 V (±10%), 50 Hz...60 Hz
		Languages	English, French

Version 01.02.2010
These data are subject to
modifications and amendments.
Errors excepted

