

Technical Specification

TT-select[®] S950 HD PVR

Digital satellite receiver for HDTV with integrated hard disk



Based on TT-select[®] product family

BASICS

- DVB satellite receiver compliant to EN 302 307
- MPEG-2 and MPEG-4 AVC/H.264 video decoding
- HDMI output
- 16 digit dot-matrix front display
- Video support for 574p, 720p and 1080i
- Internal power supply incl. Power switch
- Video and Audio out via SCART
- Digital Audio out via optical S/PDIF
- Analogue Audio out (left/right) via RCA (Cinch)
- MPEG -2 compliant: ISO/IEC 13818-1
- Video Decoding:
 - ISO/IEC 13818-2 (MPEG-2 Video)- MP@ML & MP@HL
 - ISO/IEC 14496-10 (MPEG-4/Part 10) – HP@4L
 - High Definition and Standard Definition: 1080i50, 720p50, 576i25
- Audio Decoding:
 - ISO/IEC 13818-3 (MPEG-1/2, Layer 1, 2 & 3)
 - ISO/IEC 14496-3 (MPEG-4/AAC-HE)
 - Dolby AC-3 pass-through and down-mix
- Automatic FEC selection: 1/2, 2/3, 3/4, 5/6, 7/8
- Common Interface slot
- Update over the satellite network and USB

POWER SUPPLY

- Power supply 230 VAC/50Hz to 12VDC
- Power consumption in operation mode less than 20 W
- Power consumption in standby less than 3 W
- On/Off switch

ACCESSORIES

- Receiver (ca. 432 x 250 x 57 [mm])
- Euro-SCART cable
- Remote Control including battery
- Instruction manual: A5 format black/white
- Quick introduction guide
- Standard HDMI[®] Cable

LNB control

- Band selection: 22 KHz
- Polarity selection: 14/18 V
- Tone burst mode
- DiSEqC 1.0 and 1.2
- LNB support maximal 400 mA

FRONT PANEL



BACK PANEL



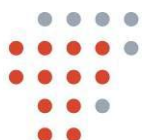
REMOTE CONTROL



STANDARD + REGULATION COMPLIANCE

- DVB satellite standard EN 302 307
- MPEG-2 Transport Stream support to ISO/IEC 13818-2
- MPEG-4/Part 10 Transport to ISO/IEC 14496-10
- MPEG-1/2, Layer 1, 2 & 3 – Audio support compliant to ISO/IEC 13818-3
- MPEG-4 Audio support compliant to ISO/IEC 14496-3
- Tele text in VBI according to ETS 300 472
- Safety and EMC regulations: EN 55013, EN 55020 and EN 60065

AWARDS



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Digital satellite receiver for HDTV with integrated hard disk



Based on TT-select[®] product family

STB MODE FUNCTIONALITY

- DVB satellite TV and Radio reception
- Pay- and Free-TV support
- Reception of High Definition and Standard Definition
- 2 HD tuner
- Integrated hard disk drive 320GB or 160GB
- USB interface for external HDD
- Common interface slot for PayTV
- HD+ retrofit
- HDMI interface
- No ventilator therefore low noise level
- 16 digit dot-matrix front display
- One-Touch-Recording
- Time shift recording
- Perfect Upscale up to 1080i
- Simultaneous display of HD content on HDMI and SD content on SCART
- Automatic format shift from 4:3 and 16:9
- Electronic Program Guide (EPG): present/following program plus additional 7-days EPG
- One-Touch Timer setting in EPG
- Automatic and manual channel scan
- Up to 4000 programs storable
- Multi language support, e.g. German, English, Swedish and Finnish
- Energy saving because of on-off switch
- Remote control for receiver and TV
- Blind Scan
- Diseqc 1.2 (rotor control)

PVR FUNCTIONALITY

- Recording of integrated hard-disc (160GB or 320GB)
- Time shift recording
- Dual Tuner:
 - Record one TV channel while watching a different one
 - Record two TV channels while watching one of those
 - Record two TV channels while watching one record Event
- One-Touch-Recording
- Timer programmable by EPG
- Timer record, Playback and Pause
- Navigation: Fast Forward Rewind, Skip, Goto, Picture Freeze
- Save Recordings on USB

RF SPECIFICATION

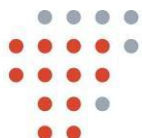
- QPSK demodulation compliant to DVB satellite standard EN 302 307
 - Frequency range: 950...2150 MHz
 - Symbol rate: 1...45 Msymbole/s (SCPC & MCPC)
 - INPUT RF level: -25...-65 dBm
 - Input connector: IEC F-type female
 - Input termination 75Ω
- For DVB-S
- SCPC/MCPC support 2 Msymbol/s to 45 Msymbol/s
 - QPSK with supported rates 1/2, 2/3, 3/4, 5/6, 6/7, 7/8
 - Viterbi soft decoder rate 1/2
 - Support of Reed-Solomon decoding (EN 300 421)
 - Up to 60 Mbps channel bit rate
- For DVB-S2
- Broadcast profile
 - SCPC/MCPC support 10 Msymbols/s to 30 Msymbol/s
 - QPSK and 8PSK with supported rates 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10
 - LDPC and BCH decoder as per DVB-S2 requirements
 - Digital Nyquist root filter with 0.20, 0.25, 0.35 roll-off factors
 - Up to 90 Mbps channel bit rate

INPUT / OUTPUT SPECIFICATION

- 2x Input connector: female IEC F-Typ (75Ω)
- Digital HDMI Video out
- 2x SCART out (TV & VCR) accordingly to EN 50049-1
- TV SCART out: CVBS, Y/C, RGB, Audio
- VCR SCART out: CVBS, Y/C, Audio
- VCR SCART in (pass to TV SCART): CVBS, Y/C, Audio
- Switching signal: at PIN 16 0/1-3 V
- RCA out (Cinch)
- 3x Component Video out – YpbPr
- 2x Analogue Audio out (left/right)
- 1x Digital Audio out
- Digital Audio out (PCM stereo, AC3) via optical S/PDIF
- Common Interface
- USB 2.0 connector

EAN

- 160 GB: 42 6006463 372 9
- 320 GB: 42 6006463 373 6



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