

# TT-budget® S2-3200



## DVB-S/DVB-S2 Receiver

### Technical Specification DVB-S and DVB-S2 PCI card



based on TT-budget® family

### BASICS

- Pay- and Free-TV satellite receiver
- PCI card for use with Personal Computer
- Optional Common Interface available to insert various Conditional Access Modules for decrypting Pay-TV
- Video and Audio decoding via software decoder (MPEG-2 and MPEG-4 AVC/H.264)
- Installation Plug and Play
- Features reception and presentation of DVB® data services (high-speed multicast and internet access)
- Fully compliant to: DVB-S standard EN 302 307
- MPEG2 Transport Stream support: ISO/IEC 13818-1
- DVB-Video/-Audio support: ISO/IEC 13818-2,-3
- DVB-Data support: EN 301 192

### GENERAL DATA

- Cabinet (WxHxD, cm) / Weight : approx. 130 x 20 x 120 approx. 0,1 kg

### INPUT / OUTPUT SPECIFICATION

- Antenna input: IEC female (F-type)
- 2.5mm phone jack to insert the infrared receiver for remote control

\* if supported by software

### RF SPECIFICATION

- Frequency range: 950-2150 MHz
- QPSK demodulation according to EN 302 307
- RF input level: -65 up to -25 dBm (IEC F-type female)

#### For DVB-S

- Input connector: IEC60169-2 female
- SCPC/MCPC support 2 Msymbols/s to 45 Msymbols/s
- QPSK with supported rates 1/2, 2/3, 3/4, 5/6, 6/7, 7/8
- Viterbi soft decoder rate 1/2
- outer Reed-Solomon decoder as per DVB-S system
- Up to 60 Mbps channel bit rate

#### For DVB-S2

- SCPC/MCPC support 10 Msymbols/s to 30 Msymbols/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

### LNB CONTROL

- Band selection: 22 KHz
- Polarity selection: 14/18 V
- Tone burst mode
- DiSEqC 1.0, 1.2\*  
SCR CENELEC (EN50494)\*
- LNB current support maximal 400 mA

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### VIDEO DECODER (SOFTWARE)

- MPEG profiles : MPEG-2 Video, MPEG-4 AVC/H.264
- High Definition and Standard Definition: 1080i50, 720p50, 576i25
- Picture Formats : Auto WSS 4:3, 16:9, 2.21:1 (Pal only)

### AUDIO DECODER (SOFTWARE)

- Profiles : MPEG 2 layer I & II
- AC 3 Decoding : yes

### TT-Viewer SOFTWARE

- Recording and Play back of TV/Radio programs
- Teletext decoding
- Time shift support
- BDA driver (BroadcastDriverArchitecture) supports many 3rd party applications
- Timer
- Favourite mode
- EPG (SI based)
- Short EPG (now/next)
- languages : D, GB,F, I, P, FI
- Automatic/manual channel search

### Driver

- API : For third-party software developers an open API (application programming interface) is available
- BDA-Driver

### MINIMUM SYSTEM REQUIREMENTS

- Windows XP , Windows Vista, Windows 7, 32- and 64-bit
- CPU for SDTV: at least 800 MHz\*
- CPU for HDTV: at least P4 3,4 GHz or a comparable AMD Athlon (Dual Core recommended)
- 512MB RAM (1024MB recommended) or WIN minimum requirements
- Hard disk with at least 1GB free storage space
- Graphics card with at least 64 MByte memory and DirectX 9 support or higher
- Sound card with DirectX 9 support or higher
- PCI slot (PCI 2.2 compatible)
- CD ROM drive
- Suitable digital satellite dish

\* Windows Vista and Windows 7 needs higher performance

### ACCESSORIES

- Infrared receiver
- Quick-Start Guide
- Remote Control inclusive Batteries
- CD-Rom inclusive driver and application software

### STANDARDS AND REGULATIONS

- DVB-S standard EN 302 307
- MPEG2 Transport Stream support to ISO/IEC 13818-1
- DVB-Video/-Audio support to ISO/IEC 13818-2,-3
- Safety and EMC regulations: EN 60950, EN 55022 and EN 55024