

Products | DreamBox DM7000S

- **250 MHz IBM PowerPC Processor** (350 Mips)
- Linux open source (most parts under the terms of GPL, accordingly expandable)- Supports Linux Standard API (Direct-FB, Linux-FB, LIRC)
- **1 x DVB Common-Interface Slot**
- **2 x Smartcard-Reader**
- Integrated Compact Flash Interface Slot
- MPEG2 Hardware decoding (fully DVB compliant)
- in future Support for MPEG4 decoding
- Common available NIMs (DVB-S, DVB-T, DVB-C)
- **100 MBit full duplex Ethernet Interface**
- USB Port Keyboard, Pointing Devices, WebCams and other devices
- V.24/RS232 Interface
- Big-size LCD-Display
- 64 MByte of RAM
- integrated IDE UDMA66 Master/Slave Interface
- **Support for internal HDD in any capacity up to 120GB**

- unlimited channel lists for TV/Radio
- **channel-change time < 1 second**
- full automatic service scan
- supports directly bouquet-lists (indirect unlimited)
- supports EPG (electronic program guide)
- supports videotext (insertion)
- various applications such Web-Browser or Mail-clients
- supports multiple LNB-Switching control (supports DiSEqC)
- fully adaptable OSD in many languages (skin-support)
- SPDIF Interface for digital bit stream out (AC-3 / DTS)
- 2 x Scart-interfaces (fully controlled by software)
- MINI-DIN connector for extern IR (send/receive) and I2C for extern Rotor devices
- intern send/receive IR (Videorecorder)

Product | DreamBox DM7000 technical data

DBS-Tuner:

Frequency Range 950 2150 MHz
Signal Level - 65 dBm - 25 dBm
Signal-to-Noise Level 12 dB max.
DBS-Tuner Input Connector F-Type female
Input Impedance 75 Ohm
AFC +/- 3 MHz
Demodulation Shaped QPSK
Input Symbol rate 2 45 Mbaud/s, SCPC / MCPC
FEC Viterbi and Reed-Solomon
Viterbi rate 1/2, 2/3, 3/4, 5/6, 7/8, automatic assimilation
Roll-off Factor 35 %
Demultiplexing according ISO 13818-1

Common-Interface:

Common-Interface Power Consumption max. 0,3A/5V

Video decoder:

Video Compression MPEG-2 and MPEG-1 compatible
Video Standard PAL G/ 25 Hz
Video Formats 4:3 / 16:9
Footage 16:9, automatic assimilation for 16:9 TV-Device (over Scart)
Letterbox precolating for 4:3 TV-Device

Audio decoder:

Audiokompression MPEG-1 & MPEG-2 Layer I and II
Audio Mode Dual (main/sub), Stereo
Frequency: 32 kHz, 44.1 kHz, 48 kHz, 16 kHz, 22.05 kHz, 24 kHz

Output analog:

Output Level L/R 0,5 Vss on 600 Ohm
THD > 60 dB (1 kHz)
Crosstalk < -65 dB

Output digital:

Output Level 0,5 Vss on 75 Ohm
Sampled Data Filtering 32 kHz, 44.1 kHz, 48 kHz
S/PDIF-Output optical (AC3)

Video parameter:

Input Level FBAS 1 Vss +/- 0.3 dB on 75 Ohm
Teletext filter in conformity with ETS 300 472 Standard

TV-Scart:

Output: FBAS,RGB,S-VHS over OSD selectable

VCR-Scart:

Input: FBAS,RGB,S-VHS
Output: FBAS,S-VHS

Serielle Interface RS 232:

Typ RS232 bidirectional
Bitrate 115,2 kBit/s max.
Plug Connector SUB-D-9
Function Update of Firmware and Preprogramming

Ethernet:

100 MBit compatible, bi-direktional interface
Function Update of Firmware and Preprogramming

USB:

USB 1.2 connector

Mini DIN:

I2C for steering of external devices (Option Rotor)
IR funktion

Pins:

- 1 5V
- 2 SDA (I2C-Kanal 2)
- 3 SCL
- 4 3,3V
- 7 GND
- 8 IR-Output
- 9 GND

UDMA66 IDE Interface:

Intern for connect HDD max. 500mA
up to 120 GB capacity
Compact Flash - Reader

LNB power and polarisation:

LNB Current 500mA max. ; short-circuit-proof
LNB Voltage vertical < 14V without load, > 11,5V at 400mA
LNB Voltage horizontal < 20V without load, > 17,3V at 400mA
LNB shut-off at Standby-Mode

Count of active satellite position:

DiSEqC 1.0/1.2 SAT POSITION / SAT OPTION
DiSEqC - Rotor Control

Power consumption:

< 20W (in operation, horizontal polarization / 400mA LNB current)
< 11W (in operation, without LNB)

Input voltage:

110 - 230V / 50,60 Hz alternating acurrent +/- 15%

Physical specification:

Ambient Temperature +15°C...+35°C
Humidity < 80%
Size (W x D x H): 374 mm x 230 mm x 75 mm
Weight: 1,8 kg without HDD