

## Product Description

The DM500S is the smallest Linux satellite TV receiver, with 1 x Smartcard-Reader.

250 MHz IBM PowerPC Processor (350 Mips)  
2 LED status  
Linux Operating System  
Full automatic service scan  
Supports directly bouquet-lists (indirect unlimited)  
Supports multiple LNB-Switching control (supports DiSEqC)  
1 x Smartcard-Reader  
Unlimited channel lists for TV/Radio  
SPDI/F nterface for digital bit stream out (AC-3 / DTS)  
MPEG2 Hardware decoding  
Channel-change time < 1 second  
Fully adaptable OSD in many languages (skin-support)  
100Mbit full duplex Ethernet Interface  
Supports EPG (electronic program guide)  
1 x Scart-interfaces (fully controlled by software)

### Video decoder:

Video Compression MPEG-2 and MPEG-1 compatible  
Video Standard PAL and NTSC  
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

### 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

### 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  
Viterbirate 1/2, 2/3, 3/4, 5/6, 7/8, automatic assimilation  
Roll-off Factor 35 %  
Demultiplexing according ISO 13818-1

### Ethernet:

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

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

Output digital:

Output Level 0,5 V<sub>ss</sub> on 75 Ohm

Sampled Data Filtering 32 kHz, 44.1 kHz, 48 kHz

S/PDIF-Output optical (AC3)

Output analog:

Output Level L/R 0,5 V<sub>ss</sub> on 600 Ohm

THD > 60 dB (1 kHz)

Crosstalk < -65 dB

Serielle Interface RS 232:

Typ RS232 bidirectional

Bit rate 115,2 kBit/s max.

Plug Connector SUB-D-9

Function Update of Firmware and Preprogramming

Power consumption:

< 10W / 12V

Input voltage:

DC12V, alternating acurrent +/- 15%

Extern power supply:

Input:

110-240V AC / 50-60Hz / 0,6A

Output:

12V = / 1A

Others:

Ambient Temperature +15C+35C

Humidity < 80%