



## TECHNINET BS5 Professional

Digital Multi-standard 8-way Head-end

| EAN           | Colour     | Item no.  | Weight (Box) | Weight  | Device (W x H x D) | Box             |
|---------------|------------|-----------|--------------|---------|--------------------|-----------------|
| 4019588059900 | blue/white | 0000/5990 | 5,56 kg      | 3,95 kg | 36 x 10 x 25 cm    | 49 x 14 x 34 cm |

### TOP FEATURES

Stand-alone head-end with 8-way multi-standard frontend DVB S(2)/-T(2)/-C, 6-way decoding (CI) and 8 output channels conforming to DVB-C (flexibly configurable)

Outstanding output values due to direct implementation as FPGA solution

4 Sat-IF inputs with DiSEqC 1.0 functionality for sat multiswitches and 1 terr./cable input, flexibly distributable across 8 multi-standard frontends

Power supply for LNB and active antennas

All transmission parameters can be set using the TMS-BS5 configuration software

Remote maintenance and configuration via PC software TMS-BS5

Comprehensive baseband signal processing with channel filter functionality such as NIT, LCN

High level of energy efficiency

No fan, therefore no noise and no maintenance

Cascade capability for two head-ends - 16 DVB-C output channels

### TUNER (DVB-S2)

DVB-S2 demodulator : EN 302 307

Demodulation : 8PSK, QPSK

Symbol rates : 1 ... 45

Roll off factor : 0,35

FEC block size : 64 kB

FEC Code rate (LDPC) : 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10

Outer coding (BCH) : GF(2<sup>16</sup>), t=8, 10, 12

### AMBIENT OPERATING CONDITIONS

Humidity : 10 ... 75 %

Ambient temperature : 0 ... 45 °C

### LNB CONTROL

Vertical : 14 V

Horizontal : 18 V

Band switch : 22 kHz

Current consumption : max. 250 mA (at F-socket no. 3)

DiSEqC : 1 (sat. pos. (A/B/C/D))

### CONFIGURATION, MONITORING

Network interface : RJ45, Ethernet, 100BaseT, TCP/IP

### DECRYPTION SYSTEM

CI : 6x Yes

### DVB-C OUTPUT

Modulation : 16-, 32-, 64-, 128-, 256-QAM

Symbol rate : 2,25 ... 7,2

MER : Typ. 45 dB (256-QAM, with equaliser)

Reception range : 47 ... 862 MHz

Output level : 110 @862 MHz, adjustable

Secondary wave suppression : > 60 dB

Signal output : F socket

Output impedance : 75 Ω

Return loss : 14 dB @47 MHz (-1.5dB/Oct.)

| POWER CONSUMPTION                                      | TUNER DVB-C                                  | TUNER DVB-T                                                  |
|--------------------------------------------------------|----------------------------------------------|--------------------------------------------------------------|
| In operation : 28 W                                    | input : F female                             | input : F female                                             |
| POWER SUPPLY                                           | Impedance : 75 $\Omega$                      | Impedance : 75 $\Omega$                                      |
| Frequency : 50 Hz                                      | Reception range : 48 ... 862 MHz             | Reception range : 50,5 ... 858 MHz                           |
| Nominal voltage : 230 V                                | Symbol rates : 1 ... 7,2                     | Modulation : QPSK, 16-QAM, 64-QAM                            |
| Mains adapter : *Unnamed (Identifier: netzteil_intern) | Modulation : 16-, 32-, 64-, 128-, 256-QAM    | Channel bandwidth : 6, 7, 8 MHz                              |
| SAT IF INPUT / MULTISWITCH                             | Nyquist roll-off : 0,15                      | FFT mode : 2k, 8k                                            |
| Reception range : 950 ... 2.150 MHz                    | FEC coding : 204, 188                        | Guard interval : 1/4, 1/8, 1/16, 1/32                        |
| input / output : F-socket                              | TUNER DVB-S                                  | FEC : 1/2, 2/3, 3/4, 5/6, 7/8                                |
| Impedance : 75 $\Omega$                                | DVB-S demodulator : EN 300 421               | TUNER DVB-T2                                                 |
| Input level : 60 ... 100                               | Demodulation : QPSK                          | input : F-Buchse                                             |
| LNB voltage supply : 14 / 18 V & 22kHz                 | Symbol rates : 1 ... 45                      | Impedance : 75 $\Omega$                                      |
| LNB power supply : Max. 250 mA at input 3              | Roll off factor : 0,35                       | Reception range : 50,5 ... 858 MHz                           |
|                                                        | FEC code rate : 1/2, 2/4, 3/4, 5/6, 6/7, 7/8 | Modulation : QPSK, 16-QAM, 64-QAM, 256-QAM                   |
|                                                        | Interleaving : Convolutional; l=12           | Channel bandwidth : 1,7 / 5 / 6 / 7 / 8 MHz                  |
|                                                        | Outer coding : Reed Solomon 204, 188, T=8    | FFT mode : 1k, 2k, 4k, 8k, 16k, 32k                          |
|                                                        |                                              | Guard interval : 1/128, 1/32, 1/16, 19/256, 1/8, 19/128, 1/4 |
|                                                        |                                              | FEC : 1/2, 3/5, 2/3, 3/4, 4/5, 5/6                           |