

Upstream decryption: Compact headend with DVB-S output

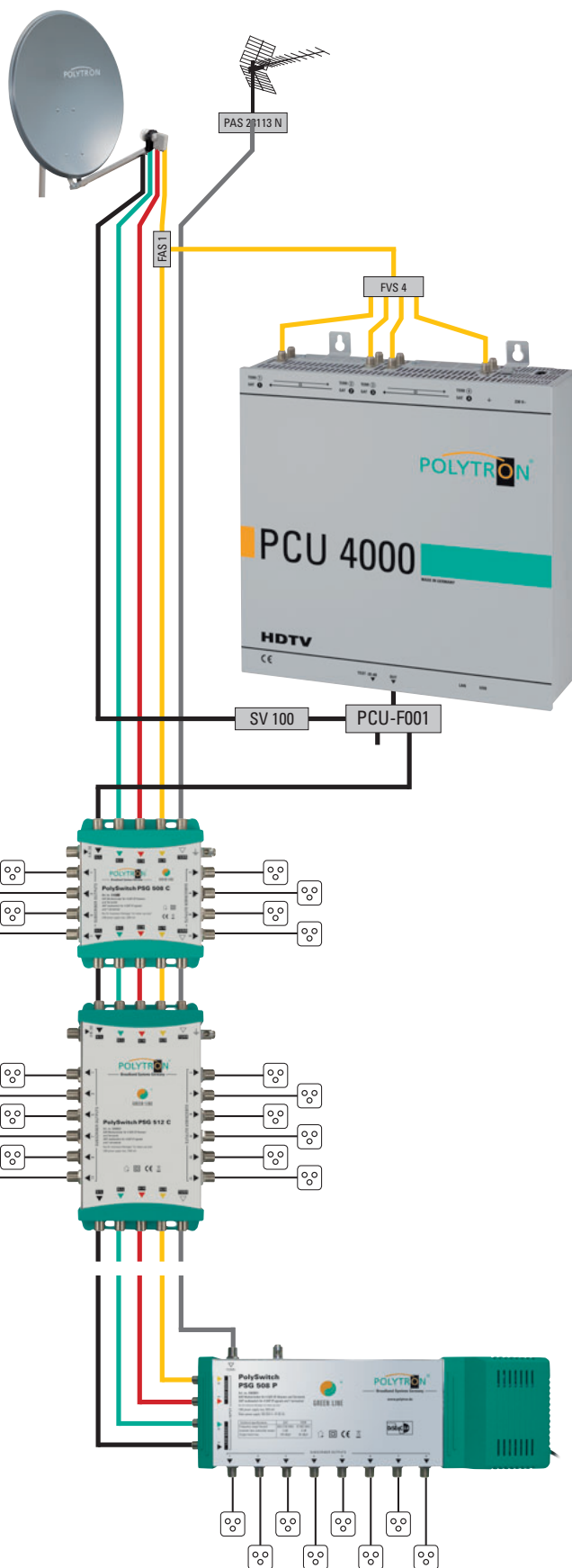
The new triple tuner headend **PCU 4141** with SAT IF output converts DVB-S/S2, DVB-T/T2 or DVB-C signals into DVB-S.

The output signals can be fed directly or via multi-switches into the SAT IF distribution system.

The compact headend features 4 built-in CI slots which enable **central decryption** of TV and radio programmes.

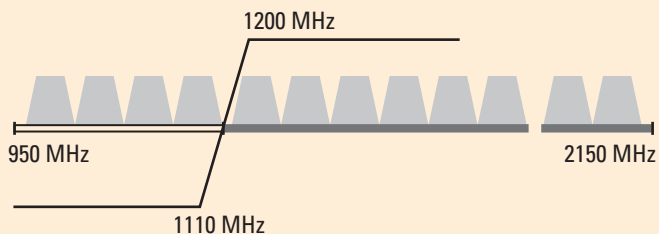
- Triple-Tuners: input signals DVB-S/S2, DVB-T/T2, DVB-C freely selectably
- mixed reception possible
- output signal DVB-S / QPSK
- output level 90 dBµV / attenuation 0-12 dB

- MPEG 2 and MPEG 4 capable
- 4 CI slots
- dynamic PAT and PMT with encrypted programmes
- transponder content can be erased
- NIT / PAT / SDT adjusting
- built-in LNB power supply
- temperature dependent fans
- programming and updates via USB and LAN
- filter PCU-F001 and inline amplifier SV 100 included in delivery
- made in Germany



The external bandpass filter **PCU-F001** allows feeding the headend's output signals into every SAT polarisation. The filter rejects the frequency range 950–1110 MHz which gives place for the PCU 4141's four output transponders. By using the filter, the available bandwidth is used effectively.

Functional principle: PCU-F001

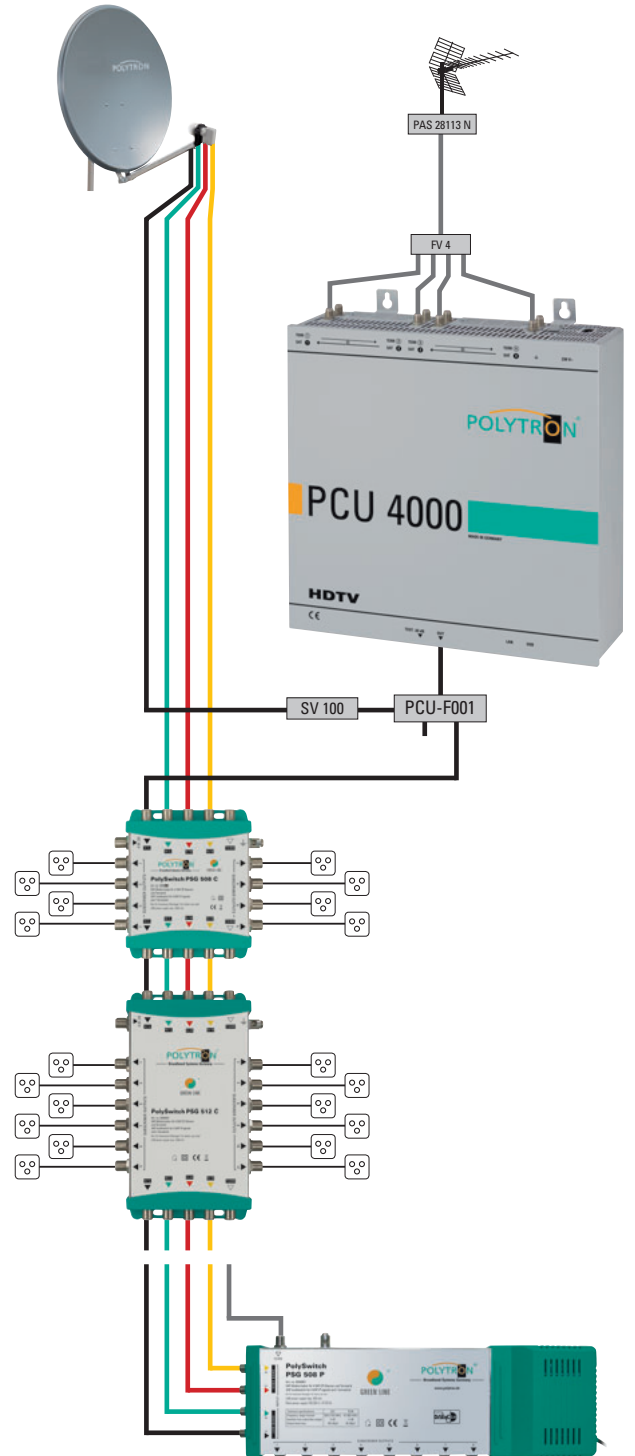
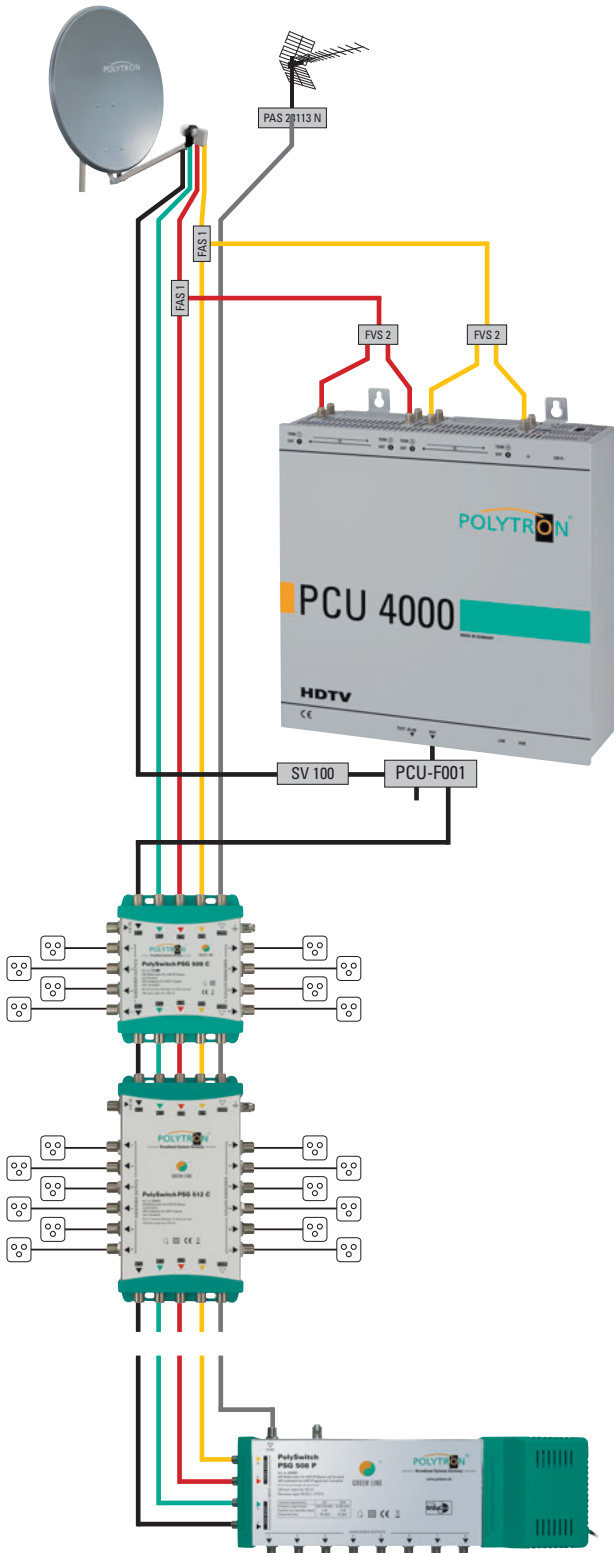


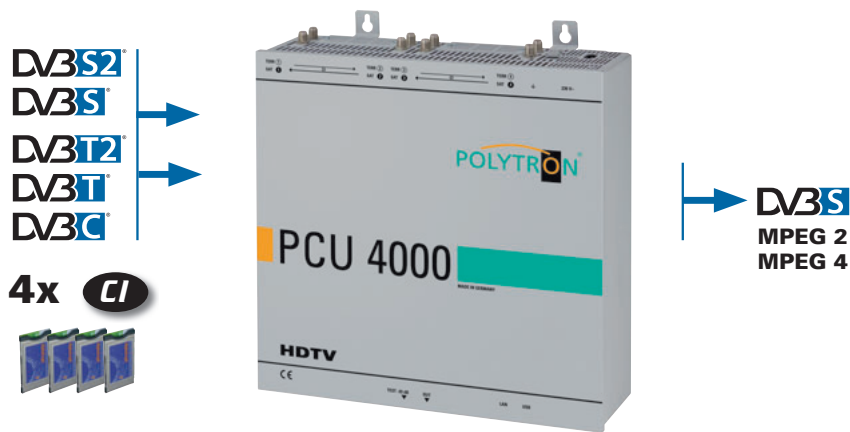
Rejection range of the filter. The PCU 4141's four output transponders can be placed here. Frequency range 950–1110 MHz

Pass range of the filter. Frequency range 1200–2150 MHz

Example 3: SAT in SAT 2 satellites and encrypted programmes

Example: TER in SAT Upstream decryption





Specifications

Typ / Type	PCU 4141
Artikel-Nr. / Article no.	5552170
Eingänge / Inputs	4
CI-Schnittstellen / CI slots	4
Eingangsspegel / Input level	50–80 dBµV
Demodulator	
DVB-S2/S	
SR DVB-S / QPSK	1 - 45 MS/s
SR DVB-S2 / QPSK	1 - 45 MS/s
SR DVB-S2 / 8PSK	1 - 45 MS/s
Modulation	8PSK / QPSK
CR DVB-S / QPSK	1/4, 1/3, 2/5, 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10
CR DVB-S2 / 8PSK	3/5, 2/3, 3/4, 5/6, 8/9, 9/10
Roll off	0.35, 0.25, 0.20
DVB-T	
Modulation	QPSK, 16QAM, 64QAM
FFT	2K, 8K
Channel bandwidth	7, 8 MHz
Code rate	1/2, 2/3, 3/4, 5/6, 7/8
Guard interval	1/4, 1/8, 1/16, 1/32
DVB-T2	
Modulation	QPSK, 16QAM, 64QAM, 256QAM
FFT	1K, 2K, 4K, 8K, 16K, 32K
Channel bandwidth	7, 8 MHz
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6
Guard interval	1/4, 5/32, 1/8, 5/64, 1/16, 1/32, 1/64, 1/128
DVB-C	
Modulation	16QAM, 32QAM, 64QAM, 128QAM, 256QAM
Symbol rate	0.2–7.2 MS/s
Channel bandwidth	6, 7, 8 MHz
Ausgangsmodulation	DVB-S
Videoformat / Video format	MPEG2 / MPEG4
Ausgangstransponder / Transponders at output	4
Frequenzbereich / Frequency range	950–1110 MHz
Symbol rate	1–33 MS/s
FEC	1/2, 2/3, 3/4, 5/6, 7/8
Ausgangsspegel / Output level	90 dBµV
Regelbare Dämpfung je Kanal / Channel attenuation	0...12 dB
S/N	> 25 dB
Leistungsaufnahme / Power consumption	45 W
Spannungsversorgung / Operating voltage	180-265 V, 50/60 Hz
Maße (B x H x T) / Dimensions (W x H x D)	331 x 328 x 103 mm

Alle Angaben ohne Gewähr. Technische Änderungen oder Irrtümer vorbehalten. / All data without guarantee. Subject to change. Errors excepted.

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