

HDTV 1000 T D



Grundig SAT Systems

Head-End Digital Transmodulator DVB-S2 → COFDM

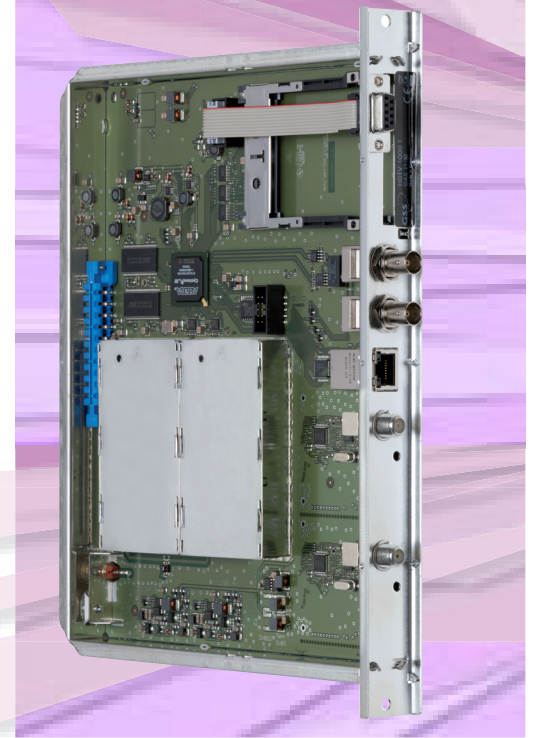
Features

- 2 DVB-S2 tuners
- 2 COFDM full band modulators
 - Electronically adjustable output level
- **DiSEqC™ 1.0 commands*** (max. 65 mA)
- ASI input/output
- CI slot for tuner A
 - (several programmes can be unscrambled)
- Multiplexing (see page 2/3):
 - Input signal path adjustable
 - Output signal path adjustable
- Station filter:
 - Programmes can be removed
(Programme data stream incl. modification of the tables)
- Transport Stream Processing:
 - Stuffing
 - Substitute signal in the case of an incorrect input signal
(Single Carrier, Null Packets, Tables)
 - Transport stream and ORGNET-ID adjustable
 - Network Information Table (NIT)
(for complete head-end station)
 - Network / Operator identification adjustable
 - Remove a PID (several via PSW 1000)
 - Rename a PID (several via PSW 1000)
- Remote Control (via PSW 1000**)
- Remote Update (via BEflash**)

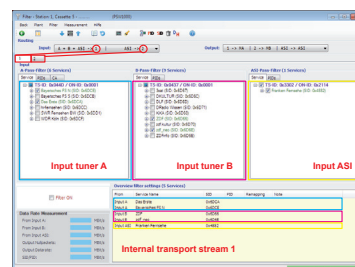
* DiSEqC™ is a trademark of EUTELSAT
** and a corresponding management unit

PSW 1000 Features

- Comfortable user interface (e.g. routing, programme filter, PIDs etc.)
- Rename SIDs
- LCN for complete station
- NIT for complete station (several head-end stations)
- Logbook
- Save/export the configuration
- Setup of complete new transponders



HDTV **DVB** multi **MD**
Digital Video Broadcasting digital®



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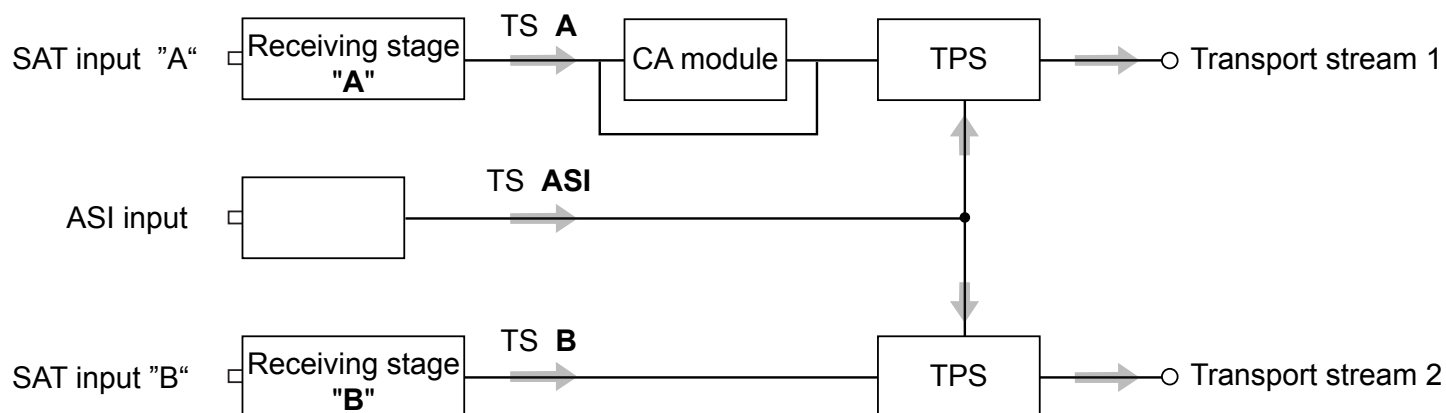
Alterations reserved. Technical data E. & O.E.



Input signal path "INROUTE":

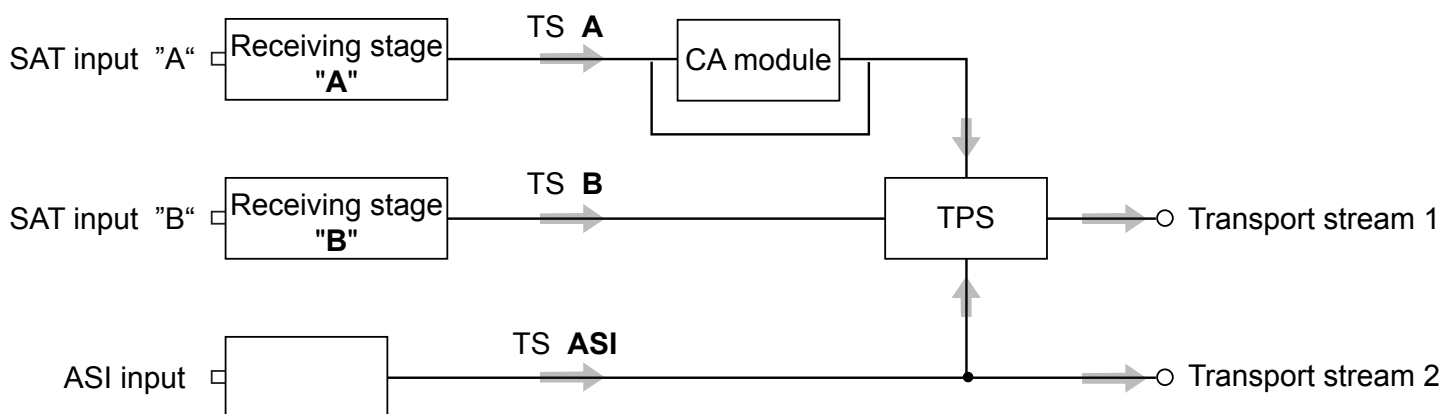
Menu setting "A+ASI = 1 B+ASI = 2"

The transport streams of the receiving stage "TS A" and of the ASI input "TS ASI" generate the transport stream 1. The transport streams of the receiving stage "TS B" and of the ASI input "TS ASI" generate the transport stream 2.



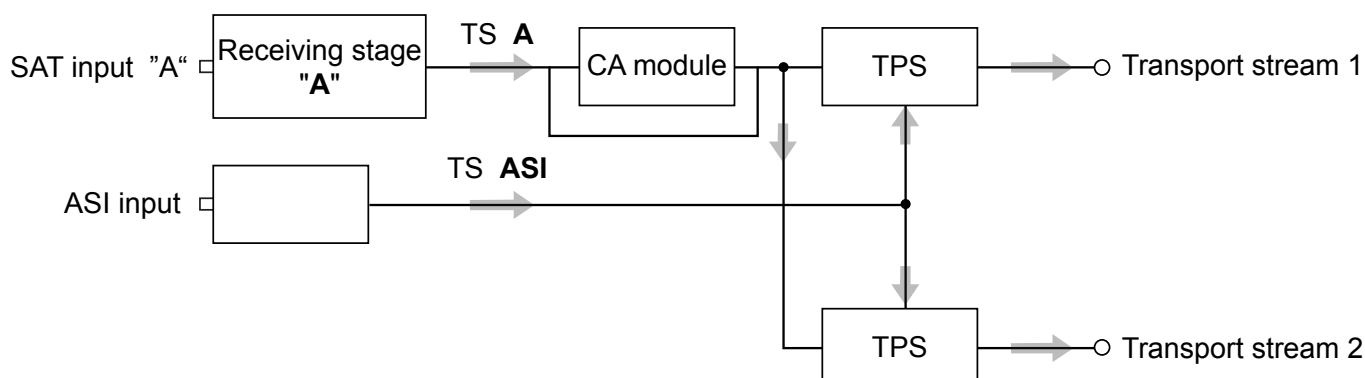
Menu setting "A+B+ASI = 1 ASI = 2"

The transport streams of the receiving stages "TS A" and "TS B" and of the ASI input "TS ASI" generate the transport stream 1. The "TS ASI" transport stream fed via the ASI input generates the transport stream 2.



Menu setting "A+ASI = 1 A+ASI = 2"

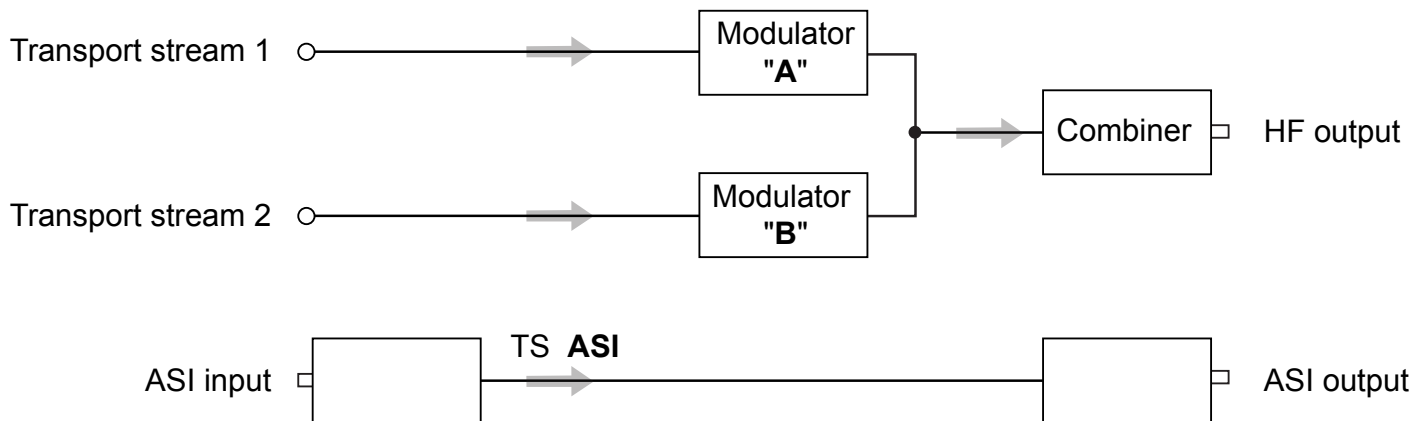
The transport streams of the receiving stage "A" "TS A" and of the ASI input "TS ASI" are split into transport stream 1 and 2. Receiving stage "B" is not used.



Output signal path "OUTROUTE":

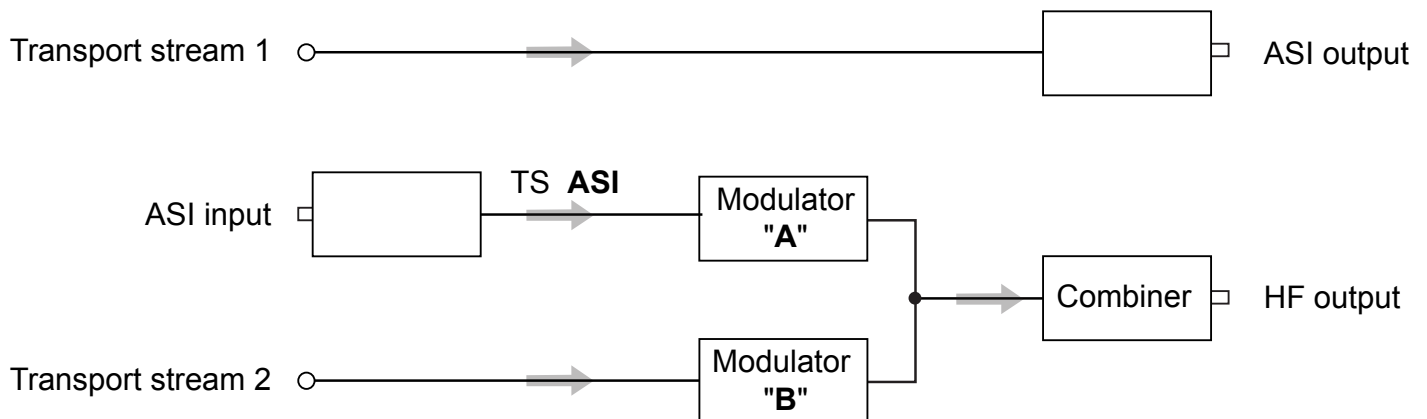
Menu setting "ASI => ASI"

Transport stream 1 is made available via modulator "A", transport stream 2 via modulator "B" and the transport stream from the ASI input "TS ASI" via the ASI output.



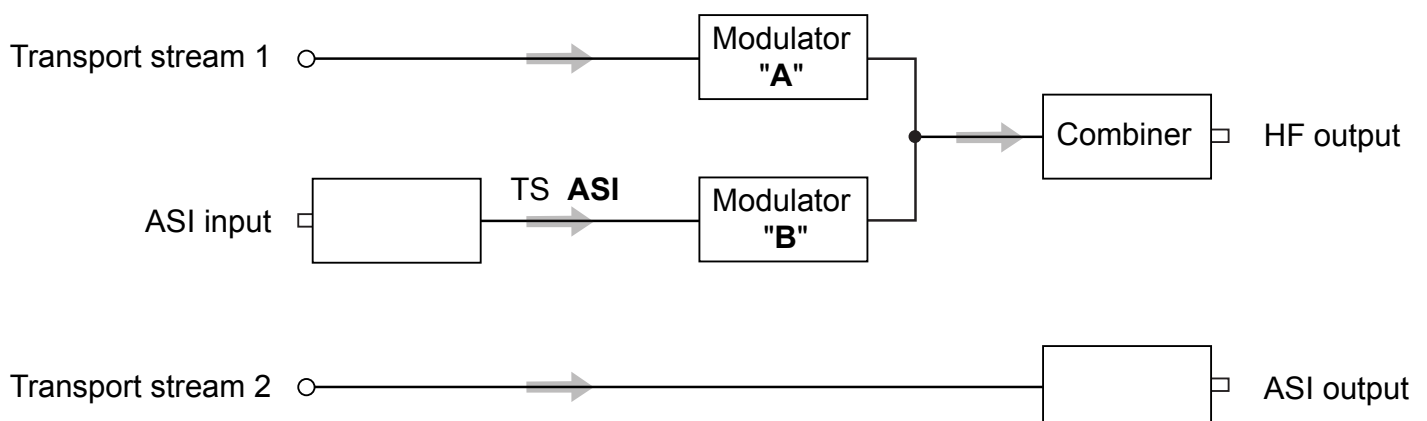
Menu setting "1 => ASI ASI => MA"

Transport stream 1 is made available via the ASI output, transport stream 2 via modulator "B" and the transport stream from the ASI input "TS ASI" via modulator "A" (MA).



Menu setting "2 => ASI ASI => MB"

Transport stream 1 is made available via modulator "A", transport stream 2 via the ASI output and the transport stream from the ASI input "TS ASI" via modulator "B" (MB).



Technical data:

The devices meet the EU directives 2006/95/EC and 2004/108/EC.

The product fulfils the guidelines and standards for CE labelling.

Unless otherwise noted all values are specified as "typical".

RF input DVB-S2

Frequency range:	925 ... 2150 MHz
Level range:	60 dB μ V ... 80 dB μ V
DVB-S modes:	DVB-S 1/2 , 2/3 , 3/4 , 5/6 , 7/8
DVB-S2 modes:	QPSK 1/2 , 3/5 , 2/3 , 3/4 , 4/5 , 5/6 , 8/9 , 9/10 8PSK 3/5 , 2/3 , 3/4 , 5/6 , 8/9 , 9/10
Symbol rate DVB-S:	QPSK: 2 ... 45 MSymb/s
Symbol rate DVB-S2:	QPSK: 10 ... 30 MSymb/s 8PSK: 10 ... 31 MSymb/s
LNB control voltage (DiSEqC™ 1.0; max. 16 control commands)*	max. 65 mA (switchable)

COFDM modulator

Signal processing:	DIN EN 300744
Transmission modes:	2k, 4k, 8k
Types of modulation:	QPSK, 16 QAM, 64 QAM
Code rates:	1/2, 2/3, 3/4, 5/6, 7/8
Guard intervals:	1/4, 1/8, 1/16, 1/32

RF output

Frequency range:	42.0 MHz ... 860.0 MHz
Channels:	C5 ... C12, C21 ... C69
Types of modulation:	QPSK, 16 QAM, 64 QAM
Output level:	96 dB μ V
Output impedance:	75 Ω

ASI interfaces

Standard:	DIN EN 50083-9
Format:	MPEG ISO IEC 13818-1
User data rate:	1 ... 180 Mbit/s
Level (input / output):	800 mVPP \pm 10%
Return loss (input):	> 17 dB (5 ... 270 MHz)

Connections

SAT inputs:	2 F sockets
RF output:	1 IEC socket
ASI input:	1 BNC socket, 75 Ω
ASI output:	1 BNC socket, 75 Ω
Connection strip (10-pin):	for supply voltages and control circuits
RS-232 socket:	serial interface for software update
Common Interface:	several channels can be descrambled

