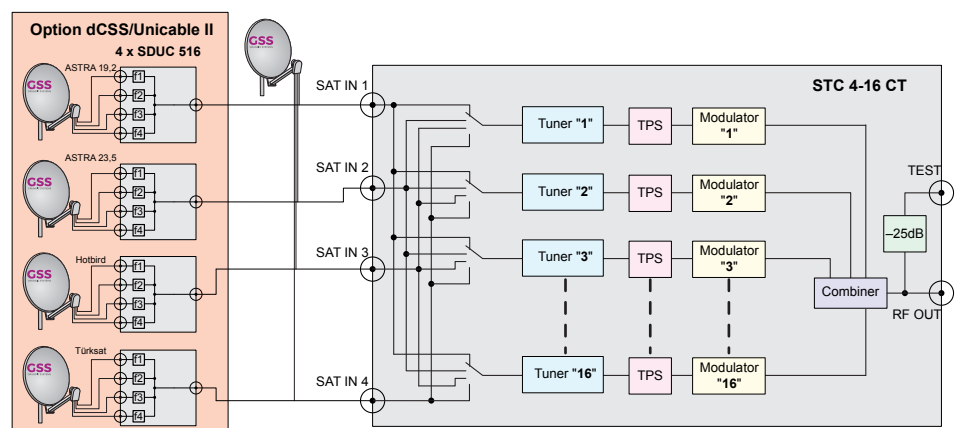
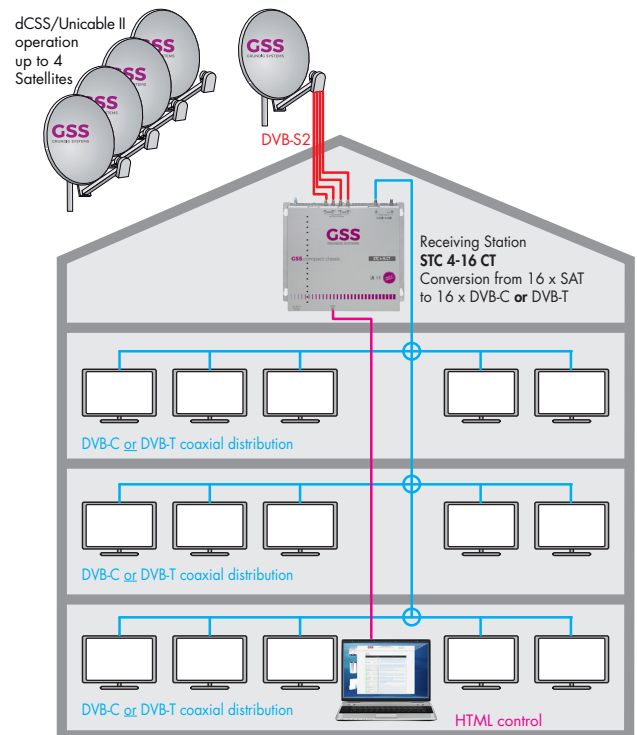


## Head-End Station

### 16 x DVB-S2 → QAM or COFDM

### Features

- Direct Conversion
- 4 SAT IF inputs with integrated multiswitch
- Up to 4 satellites with each 4 levels in conjunction with specially programmed multi-switches
- 16 DVB-S2 tuners with 16/32APSK support
  - SAT input selectable
- 16 QAM/COFDM full band modulators
  - Modulation type switchable between QAM or COFDM
  - Electronically adjustable output level
  - suitable for adjacent channels
  - Symbol rates and modulation individually adjustable
- Station filter:
  - Programmes can be removed
  - Modification of programme data stream incl. tables
  - PID filter (drop/remap)
- Transport Stream Processing:
  - Network Information Table (NIT) for complete head-end station
  - LCN (Logical Channel Numbering)
  - Adjustable data rate
  - TS-/ON IDs can be changed
- Media player (option)
  - 1 stream in continuous loop via one channel
- HTML user interface
- World wide access via OpenVPN connection...
  - ... by PC, tablet or smart phone with Internet access
- Notification in case of data overflow or transponder failure
  - Response time for input signal or data overflow error adjustable.
  - Warning e-mail for error entries in the logbook.



## Technical data:

The devices meet the EU directives 2011/65/EU, 2014/30/EU and 2014/35/EU.

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:	910 ... 2150 MHz
DVB-S modes:	QPSK 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 16APSK 2/3 , 3/4 , 4/5 , 5/6 , 8/9 , 9/10 32APSK 3/4 , 4/5 , 5/6 , 8/9 , 9/10
Symbol rate DVB-S:	QPSK: 1 ... 45 MSymb/s
Symbol rate DVB-S2:	QPSK/ 8PSK: 4.5 ... 45 MSymb/s 16APSK: 4.5 ... 39 MSymb/s 32APSK: 4.5 ... 32 MSymb/s
Maximum data rate/tuner:	83MBit/s
Level range:	60 dB $\mu$ V ... 80 dB $\mu$ V
Input impedance:	75 $\Omega$
LNC supply:	maximum total output of 500 mA

### RF output QAM

Frequency range:	42.0 MHz ... 868.0 MHz
Types of modulation:	QAM 16, 32, 64, 128, 256
Output level:	80...96 dB $\mu$ V
Dynamic phase error:	< 0.2 °
MER:	45 dB
Symbol rate:	1000...7500 kBd
Output impedance:	75 $\Omega$

### RF output COFDM

Frequency range:	42.0 MHz ... 868.0 MHz
Output level:	80...96 dB $\mu$ V
Transmission modes:	2k
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
Output impedance:	75 $\Omega$

### Connections

SAT inputs:	4 F sockets
RF output:	1 F socket
RF test output (-25 dB):	1 F socket
LAN (for control) 1000-BASE-T:	1 RJ45 socket

### General

Supply voltage:	100...240 V ~, 50/60 Hz
Power consumption:	45 W (without LNC supply); max. 65 W
Ambient temperature:	0...+50 °C
Cooling:	passive, fanless
Dimensions (W x H x D):	341 mm x 282 mm x 85 mm
Weight:	5 kg