

Technical Specification



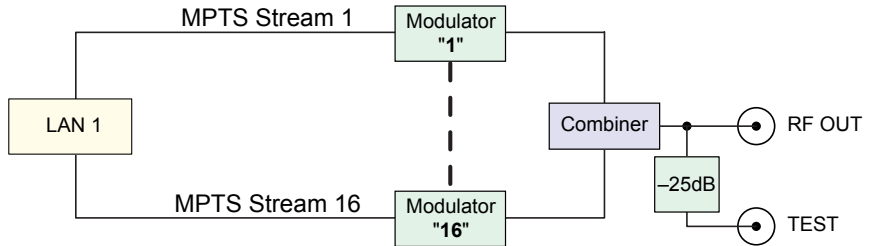
STI 1916 CT

Default access data:
192.168.0.120
User: admin
Password: geheim

DESCRIPTION

The head-end station converts 16 MPTS streams into 16 QAM or 16 COFDM modulated transponders. A further 16 MPTS data streams can be provided as redundant input signals as a software option for an extra charge.

BLOCK DIAGRAM



DESIGN TYPE

Version GSS.lamina
Aluminium housing with stainless steel covers 483mm x 44.5mm (1HU) x 490mm 19" rack
Weight: 6 kg
Permissible ambient temperature: 0 ... +50 °C
PSUs:..... 2 (redundant; can be exchanged individually during operation)
Active cooling..... 3 case fans (can be exchanged individually during operation); 2 PSU fans

FEATURES

IN-/OUTPUTS

LAN input	1
DVB-C/T output	1
DVB-C/T test output (-25 dB).....	1
LAN control inputs ²⁾	2 (for control and another Lamina)

²⁾ internally connected via an integrated switch

INPUT SIGNAL PROCESSING

Maximum over all input data rate (Σ input lines 1-16)	800 MBit/s
Input lines can be switched off individually	
Individual input signal name	for input lines 1...16
Input lines 1...16 (LAN)	16 x MPTS
	Display of TS/ON IDs
Redundant input lines 1...16 ²⁾	16 x MPTS
	²⁾ software option for an extra charge
Automatic switchover in case of signal failure	switching threshold adjustable
Quick setup	for input lines 1...16

FILTER

Station filter	lines 1...16
PID filter	lines 1...16
Indication of the	
... TS/ON IDs	for output lines 1...16
... current/maximum possible ³⁾ total output data rate	Σ Output lines 1...16
... current output data rate	Output lines 1...16
... peak value of output data rate reached so far	Output lines 1...16
... maximum possible output data rate ³⁾	Output lines 1...16

³⁾ depending on the output settings

OUTPUT SIGNAL PROCESSING

Output lines	16
Output signal form	RF
Display of the current/maximum possible ³⁾ output data rate	for output lines 1...16
	³⁾ depending on the output settings
RF output signals	suitable for adjacent channels
Output modulation adjustable for the complete station	QAM or COFDM
Output lines	can be switched off individually
Total output level adjustable	0...-31dB

QAM

Frequency/Channel; Symbol rate; Modulation, Spectrum, Level (0...-10dB) individually adjustable for each output line.

COFDM

Frequency/Channel; Spectrum; Modulation; Code rate; Guard interval; Bandwidth; Level (0...-10dB) individually adjustable for each output line.

NIT

Renew; delete; add transponder; import NIT of other devices; export NIT

NIT modes: Output of the displayed NIT (user); alternatively, transmission of the input NIT (original); alternatively, no NIT (deactivate).

Note in case of faulty NIT

LCN

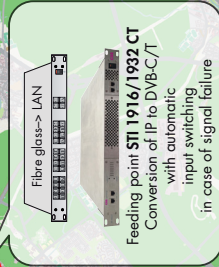
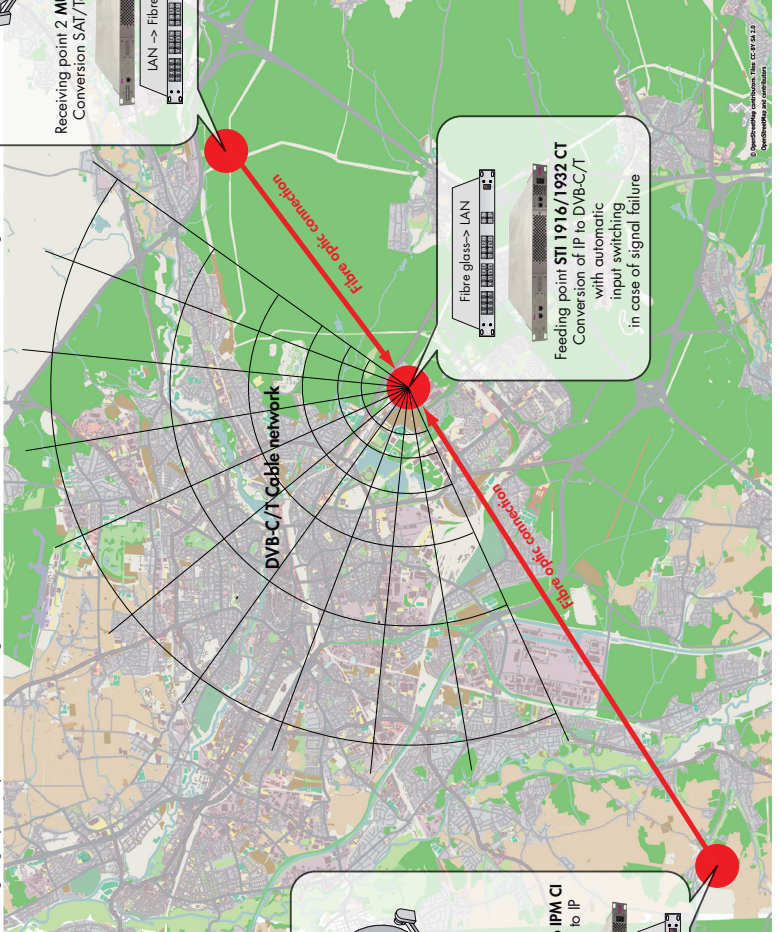
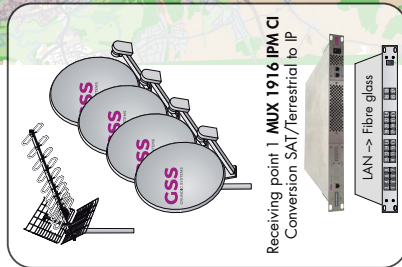
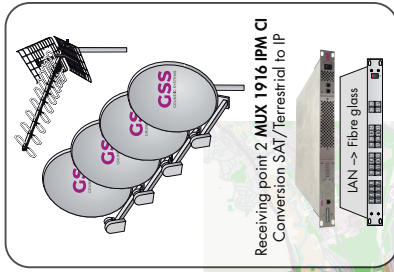
Generation of an LCN list (programme location number preassignment)

SYSTEM

User interface HTML
Logbook Display of warnings and events
Response times adjustable for input signal and data overflow errors
Notification in case of errors via mail and to your syslog server ⁵⁾
Transmission of the logbook entries to a syslog server ⁵⁾
⁵⁾ Internet connection required
Network interfaces adjustable
OpenVPN connection world wide access to the head-end station ⁵⁾
⁵⁾ Internet connection required
Safety Password protection
Number format for IDs switchable decimal or hexadecimal
Backup the configuration Backup and restore
Manager several configurations can be stored in the device
Network diagnostic tool Ping
Factory reset (via menu "Firmware") all settings except password and IP address!
Reset button only network settings and password
Monitoring of power supplies and case fans
Assembly instruction (offline; PDF) in menu Help

Example: **DVB-C/T Cable network**

Two geographically remote receiving stations with automatic switchover in the event of signal failure



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TECHNICAL DATA

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

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

Data input

MPTS streams 16
Protocols: UDP (User Data Protocol), RTP (Real-Time Transport Protocol)

Input data

Maximum over all input data rate (Σ lines 1-16): 800 MBit/s

RF output QAM (suitable for adjacent channels; symbol rates and modulation individually adjustable)

Frequency range: 42.0 MHz ... 868.0 MHz
Types of modulation: QAM 4, 16, 32, 64, 128, 256
Output level: 80...96 dB μ V
Dynamic phase error: < 0.2 °
MER: > 45 dB
Output impedance: 75 Ω
Symbol rate: 1000...7500 kBd

RF output COFDM (suitable for adjacent channels; modulation individually adjustable)

Frequency range: 42.0 MHz ... 868.0 MHz
Types of modulation: QPSK, 16 QAM, 64 QAM
Transmission modes 2k
Code rates 1/2, 2/3, 3/4, 5/6, 7/8
Guard intervals 1/4, 1/8, 1/16, 1/32
Output level: 80...96 dB μ V
Output impedance: 75 Ω

Connections

RF output: 1 F socket
Test output (-25 dB): 1 F socket
LAN (for control/cascading) 100-BASE-T: 2 RJ 45 socket
LAN (for data) 1000-BASE-T: 1 RJ 45 socket

General

PSUs: 2 (redundant; can be exchanged individually during operation)
Mains voltage: 100...240 V, 50/60 Hz
Maximum Power consumption 50 W
Admissible ambient temperature: 0 ... +50 °C
Dimensions (WxHxD): 483 mm x 44,5 mm (1HU) x 490 mm
Weight: 6 kg

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