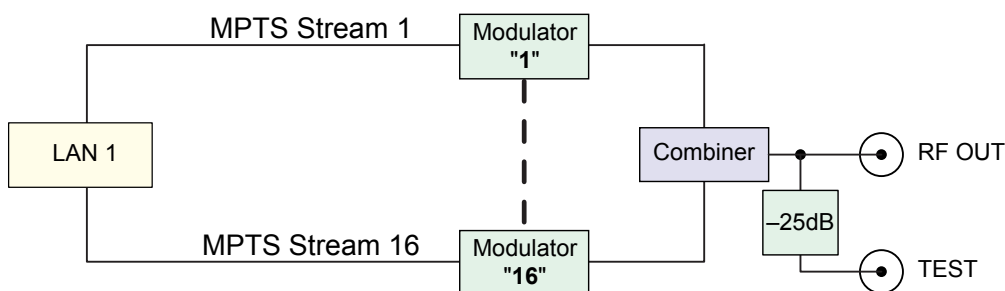
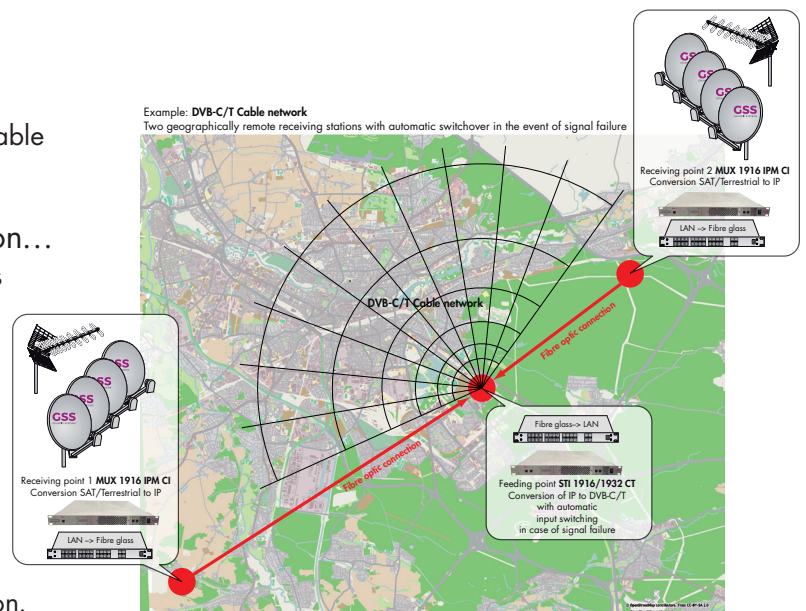


Modulator

16 x MPTS → 16 x QAM or COFDM

Features

- Direct Conversion
- 1 Gbit LAN input
 - 16 Stream IPs are freely adjustable
 - RTP, UDP
- Redundant MPTS input transport streams (software option for an extra charge)
 - 16 redundant multicast IP addresses can be set, to which the system automatically switches in the event of a signal failure (adjustable threshold).
- 16 full band modulators - QAM **or** COFDM
 - Electronically adjustable output level
 - suitable for adjacent channels
 - Symbol rates and modulation individually adjustable
- HTML user interface
- World wide access via OpenVPN connection...
 - ... by PC, tablet or smart phone with Internet access
- Redundant power supply
 - Two fully satisfying mains units
 - Half load operation
 - For UPS and mains or two-phase operation
 - Can be replaced separately during operation
 - Audible warning when one power supply fails
- Fan cooling
 - Fans can be replaced separately during operation.
- Notification in case of data overflow or transponder, fan or power supply failure
 - Response time for input signal or data overflow error adjustable.
 - Warning e-mail for error entries in the logbook.
 - Error message to Syslog server.



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".

LAN interface

Standard:..... 1000-BASE-T
User data rate: ≤ 800 MBit/s
Protocols: UDP (User Data Protocol),
RTP (Real-Time Transport Protocol)

💡 Live Streaming/Multicast Streaming requires specially designed and configured networks.

Minimum Requirements include:

- Layer-3 Switched Ethernet
- Multicast Enabled IGMPv3
- Network and Multicast Routing Supported.

RF output QAM

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

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

LAN (for data) 1000-BASE-T: 1 RJ45 socket
LAN (for control) 1000-BASE-T: 2 RJ45 sockets
RF output: 1 F socket
RF test output (-25 dB): 1 F socket

General

Mains units: 2 (redundant; can be replaced separately during operation)
Supply voltage..... 100...240 V, 50/60 Hz
Power consumption: 50 W
Cooling fans: 3 (can be replaced separately during operation)
Ambient temperature: 0...+50 °C
Dimensions (W x H x D): 483 mm x 44.5 mm (1HU) x 490 mm