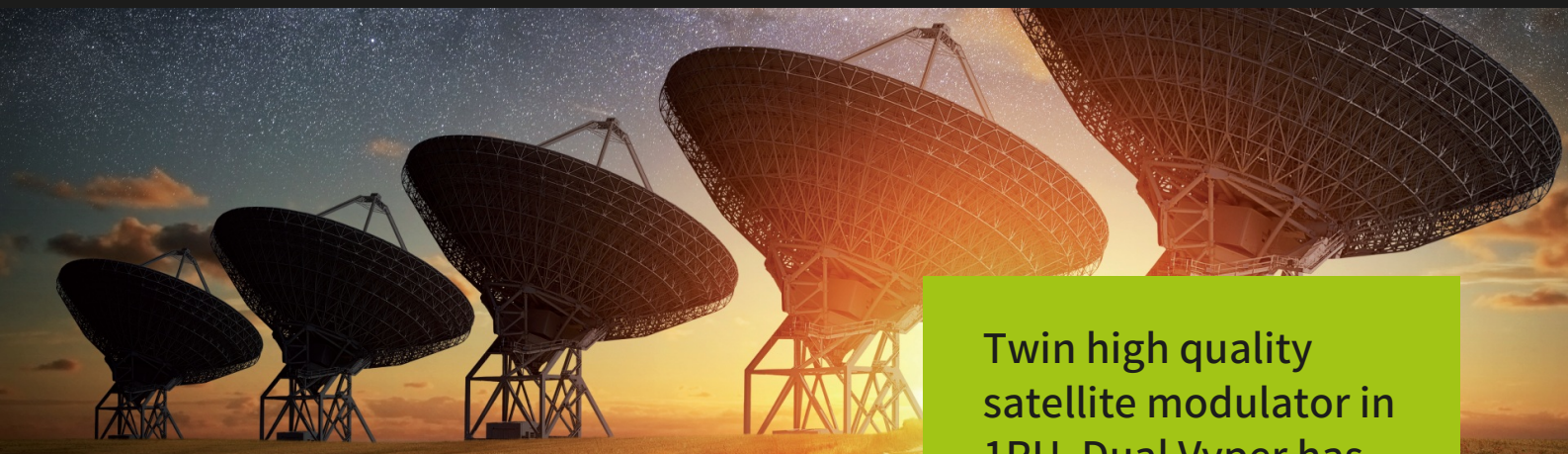


DualVyper

Broadcast Satellite Modulator



Twin high quality satellite modulator in 1RU, Dual Vyper has been optimized for applications like DSNG truck, Flyaway systems or Teleport applications where density is a key point.

Dual Vyper is a double satellite modulator designed for any MPEG-TS TV applications compliant to DVB-S, DVB-DSNG, DVB-S2 and DVB-S2X standards. Each modulator naturally comes with L-Band & IF interfaces as well as ASI & IP Inputs to match any system architectures. Managing symbol rate up to 80 MSymbol/s, Dual Vyper can saturate two 72 MHz satellite transponders simultaneously.

More Density

Dual Vyper embeds two independent satellite modulators in one 1U rack chassis.

All DVB Standards

Each Modulator performs high-quality modulation based on the DVB-S, DVB-DSNG, DVB-S2 and DVB-S2X standards, including constellation up to 256 APSK.

Flexible Platform

Dual Vyper is equipped with all input / output interfaces, provides all standardised features and smart switching capabilities to fit any redundant system architectures.

More bit rate & Crystal Clear Spectrum

Based on the latest FPGA technology, Dual Vyper provides Crystal Clear spectrum with very high SNR to improve your budget link and increase your bit rate.

Applications

- DSNG – Contribution
- TV Distribution To Tower
- Single Illumination System
- DTH Broadcasting

Other benefits

- Optimized CAPEX
- Space reduction
- Up to date and upgradable
- High RF Quality

DualVyper

Broadcast Satellite Modulator

Technical specifications

DATA I/O PER MODULATOR

Ethernet Port

2 Ethernet ports 1 GigE - RJ45

ASI Interface

2 ASI Inputs - BNC - 75 Ω

DATA PROCESSING PER MODULATOR

Input Formats

- DVB MPEG-TS over ASI: EN50083-9, ETSI TR 101 891
- DVB MPEG-TS over IP: ETSI TR 102 034
- MPEG-2 PSI Tables (PAT and PMT): EN 300 468

DVB-S, -DSNG, -S2, -S2X Modulation

- BCH / LDPC (all code rates)
- Constellations: BPSK, QPSK, 8PSK, 16APSK to 256APSK
- Operating modes: CCM, VCM & ACM
- Frame length: Short & Normal

Multistream

- Up to 4 Streams (ISI)
- Independent MODCOD per stream

Scrambling

- BISS Version 1 Mode 0/1/E
- BISS Version 2 Mode 0/1/E/CA

Input features

- Bit rate adaptation modes
 - Null Packets/Padding/Advance Padding
- Redundancy switching between inputs
 - Physical layer / TS Synchro / Network Jitter

Carrier

- Symbol rate: 0.05 to 80 MSymbol/s
- Standard and custom roll-off from 5 to 35 %
- PL Scrambling
- Pilots insertion

Predistortion - ESP

- Linear & Non-Linear
- Manual Adjustment

DVB Carrier ID

- Compliant to ETSI TS 103 129 Standard

RF OUTPUTS PER MODULATOR

L-Band Main Output

- L-Band 950 MHz to 2150 MHz
- +7dBm to -35dBm / SMA 50 Ω
- 10 MHz Reference insertion

L-Band Monitoring Output

- Copy of L-Band Main Output
- 20 dB Below / SMA 50 Ω

IF-Band Main Output

- IF-Band 50 MHz to 180 MHz
- +5dBm to
- 35 dBm / BNC 75 Ω

IF-Band Monitoring Output

- Image of IF signal @ 1.21 GHz
- -35 dBm / SMA 50 Ω

CONTROL & MANAGEMENT

Web UI

- HTML5 Technology
- Live statistics & monitoring

Front Panel

- One Easy to use front panel per modulator
- Full control & monitoring

SNMP

- SNMP v2 support
- TRAP & INFORM mechanism

Serial Link

- RS232 / DB9 connector
- Full control & monitoring

DualVyper

Broadcast Satellite Modulator

PHYSICAL

Height x Width x Depth

44 mm / 1.7 in. x 483 mm / 19 in. x 350 mm / 13.7 in.

Power Supply

2 x 90-240VAC

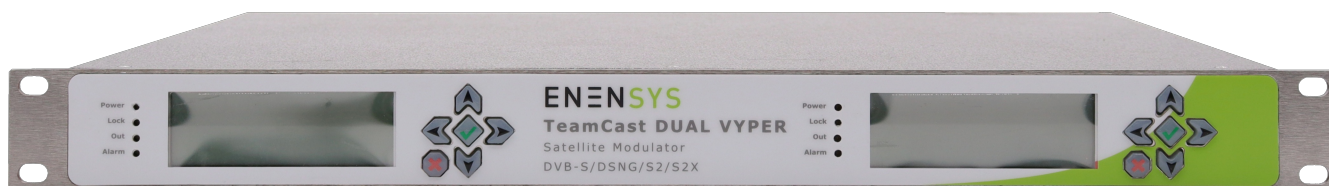
Format - Weight

1RU, 19" width - 6 kgs

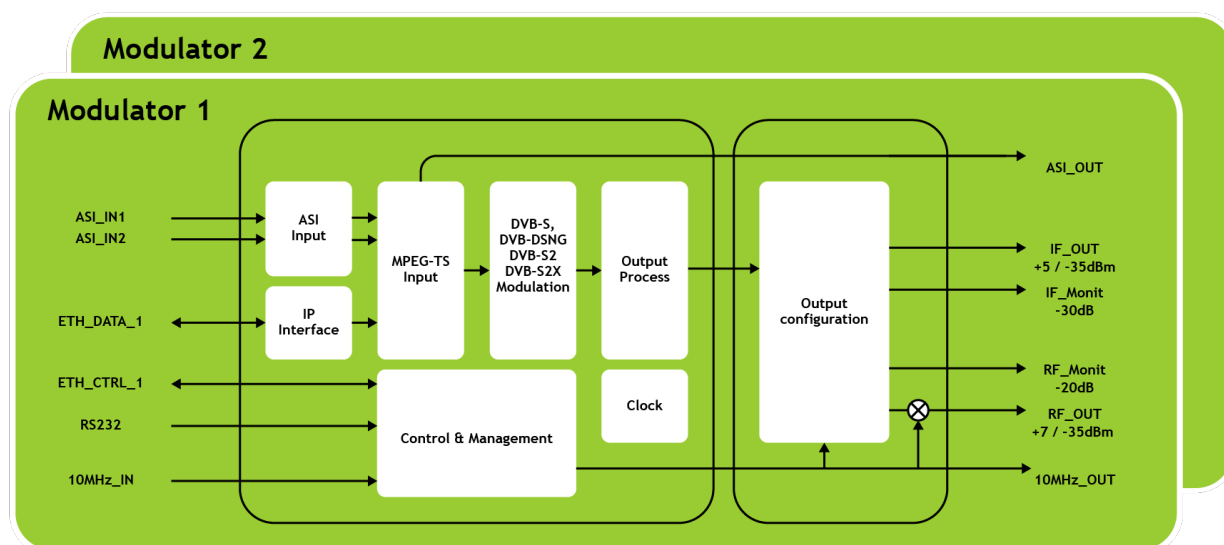
Power Consumption

2 x 30W

Front



Back



DualVyper

Broadcast Satellite Modulator

Ordering codes

xSSR-VYP0-2522

DVB-S/DSNG/S2 DUAL Satellite Modulator - 50/180 & 950/2150
MHz Out, +7/-35 dBm - QPSK/64APSK - 80 Mbauds - 1U Rack

Ordering options

xSSO-VYP2-S2XH

DVB-S2X standard - High efficiency constellations - Up to 256APSK
- for DUAL modulator - Software option

xSSO-VYP2-BISA

BISS2 - mode 0/1/E/CA Scrambling license - for DUAL modulator -
Software option

xSSO-VYP2-BISE

BISS1 - mode 0/1/E Scrambling license - for DUAL modulator -
Software option

xSSO-VYP2-ESP0

Enhanced Satellite Precorrection Linear & Non-linear - for DUAL
modulator - Software option