DVB-S-S2 REGENERATOR

DVB-S-S2 Regenerator is professional **multichannel** device which allows to completely restore a weak noisy signals and transmit them for further broadcasting. It regenerates the signals of the **DVB-S/S2 to S/S2** standard.

This type of regenerator supports the DVB-S/S2 standard. DVB-S/S2 Regenerator is controlled by our own developed VCC software by Ethernet. DVB-S/S2 Regenerator can be produced with N-, F- or SMA-type of input / output connectors by order.

KEY FETURES:

- can be produced from 1 to 32 independent regeneration channels;
- high stable hardware;
- fast and high reliable control software;
- remote control by Ethernet.

MAIN FUNCTIONS:

- if power is lost all saved settings are recovered in the device after restoration of supply;
- integrated over-voltage protection;
- integrated over-load protection;
- integrated short-circuit protection.

Video instructions about DVB-S-S2 Regenerator watch here

Inputs	
The input level	-65 ... -25 dBm
RF Frequency range (DVB-S/S2)	950 MHz-2150 MHz in 1 kHz-steps
Interface, connector type	RF, N-type (F or SMA as option)
Symbol rate	1 ... 45 MSymb/s (QPSK); 1 ... 45 MSymb/s (8PSK); 1 ... 38.7 MSymb/s (16PSK, 1 channel mode), 1 ... 43 MSymb/s (16PSK, 1 channel mode, by request); 1 ... 31 MSymb/s (32PSK, 1 channel mode), 1 ... 34.5 MSymb/s (32PSK, 1 channel mode, by request); in steps of 1 KSymb/s

RF output	
RF out (50Ω)	80-100 dBµV
Number of inputs, connector type	RF output N-type (F or SMA as option)
Injection	Optionaly can provide injection of DC and 10 MHz reference
RF Frequency range (DVB-S/S2)	950 MHz-2150 MHz in 1 kHz-steps
Modulation parameters DVB-S mode	
Constellation	QPSK
Modulation Error Rate (MER)	>27 dB
FEC	1/2 , 2/3 , 3/4 , 5/6 , 7/8
Symbolrate	1–45 MSymbol/s
Bandwidth	defined by symbolrate
Modulation parameters DVB-S2 mode	
Constellation	QPSK / 8PSK / 16APSK or 32APSK (by request)
Modulation Error Rate (MER)	>27 dB
FEC (LDPC)	1/4 , 1/3 , 2/5 , 1/2 , 3/5 , 2/3 , 3/4 , 4/5 , 5/6 , 8/9 , 9/10
Symbolrate	1 ... 45 MSymb/s (QPSK); 1 ... 45 MSymb/s (8PSK); 1 ... 38.7 MSymb/s (16PSK, 1 channel mode), 1 ... 43 MSymb/s (16PSK, 1 channel mode, by request); 1 ... 31 MSymb/s (32PSK, 1 channel mode), 1 ... 34.5 MSymb/s (32PSK, 1 channel mode, by request); in steps of 1 KSymb/s
Roll-Off-Factor	0.2, 0.25, 0.35
Pilots	on/off
Bandwidth	defined by symbolrate
Signals injection	
10 MHz reference	10^{-6}-10^{-8} stability (optionally)
Power injection	for the BUC 24V, 3A (optionally)
Adjustment	
Interface	RJ-45, Ethernet
Power Supply	
Input Voltage	110-240 VAC, 50/60Hz
Power Consumption	6W per channel
Environmental	
Operating Temperature	0℃ to 45℃ (32℉ to 113℉)
Storage Temperature	-20℃ to 80℃ (-4℉ to 176℉)
Operating Humidity	90%, non-condensing
Mechanical	
Dimensions (W x H x D)	1RU: 483mm x 44.5mm x 450mm, 19’’ x 1.73’’ (1RU) x 17.7’’ 2RU: 483mm x 89mm x 450mm, 19’’ x 3.5’’ (2RU) x 17.7’’

Taking into consideration that we (UMT LLC) are developer and system integrator, also do not stop on our technical growth and improvement, know that view of all our devices and equipment including their technical parameters may be different from pictures presented on website and parameters listed on each device webpage.
Note! *All details customer has to confirm in advance during ordering and before payment. Those parameters that were not specified and / or were not agreed while ordering will be implemented as basic at the discretion of the manufacturer. Each our customer has 1.5 year warranty and 7 year aftersales support for whole range of our products.*