

## 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 FEATURES:

- 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](#) 

<b>The input level</b>	-65 ... -25 dBm
<b>RF Frequency range (DVB-S/S2)</b>	950 MHz-2150 MHz in 1 kHz-steps
<b>Interface, connector type</b>	RF, N-type (F or SMA as option)
<b>Symbol rate</b>	<p>1 ... 45 MSymb/s (<u>QPSK</u>);</p> <p>1 ... 45 MSymb/s (<u>8PSK</u>);</p> <p>1 ... 38.7 MSymb/s (<u>16PSK</u>, 1 channel mode),</p> <p>1 ... 43 MSymb/s (<u>16PSK</u>, 1 channel mode, <u>by request</u>);</p> <p>1 ... 31 MSymb/s (<u>32PSK</u>, 1 channel mode),</p> <p>1 ... 34.5 MSymb/s (<u>32PSK</u>, 1 channel mode, <u>by request</u>);</p> <p>in steps of 1 KSymb/s</p>
<b>RF output</b>	
<b>RF out (50 )</b>	80-100 dB $\mu$ V
<b>Number of inputs, connector type</b>	RF output N-type (F or SMA as option)
<b>Injection</b>	Optionally can provide injection of DC and 10 MHz reference
<b>RF Frequency range (DVB-S/S2)</b>	950 MHz-2150 MHz in 1 kHz-steps
<b>Modulation parameters DVB-S mode</b>	
<b>Constellation</b>	QPSK
<b>Modulation Error Rate (MER)</b>	>27 dB
<b>FEC</b>	1/2 , 2/3 , 3/4 , 5/6 , 7/8

<b>Symbolrate</b>	1–45 MSymbol/s
<b>Bandwidth</b>	defined by symbolrate
<b>Modulation parameters DVB-S2 mode</b>	
<b>Constellation</b>	QPSK / 8PSK / 16APSK or 32APSK (by request)
<b>Modulation Error Rate (MER)</b>	>27 dB
<b>FEC (LDPC)</b>	1/4 , 1/3 , 2/5 , 1/2 , 3/5 , 2/3 , 3/4 , 4/5 , 5/6 , 8/9 , 9/10
<b>Symbolrate</b>	<p>1 ... 45 MSymb/s (<u>QPSK</u>);</p> <p>1 ... 45 MSymb/s (<u>8PSK</u>);</p> <p>1 ... 38.7 MSymb/s (<u>16PSK</u>, 1 channel mode),</p> <p>1 ... 43 MSymb/s (<u>16PSK</u>, 1 channel mode, <u>by request</u>);</p> <p>1 ... 31 MSymb/s (<u>32PSK</u>, 1 channel mode),</p> <p>1 ... 34.5 MSymb/s (<u>32PSK</u>, 1 channel mode, <u>by request</u>);</p> <p>in steps of 1 KSymb/s</p>
<b>Roll-Off-Factor</b>	0.2, 0.25, 0.35
<b>Pilots</b>	on/off
<b>Bandwidth</b>	defined by symbolrate
<b>Signals injection</b>	
<b>10 MHz reference</b>	$10^{-6}$ - $10^{-8}$ stability (optionally)
<b>Power injection</b>	for the BUC 24V, 3A (optionally)
<b>Adjustment</b>	

<b>Interface</b>	RJ-45, Ethernet
<b>Power Supply</b>	
<b>Input Voltage</b>	110-240 VAC, 50/60Hz
<b>Power Consumption</b>	6W per channel
<b>Environmental</b>	
<b>Operating Temperature</b>	0 to 45 (32 to 113 )
<b>Storage Temperature</b>	-20 to 80 (-4 to 176 )
<b>Operating Humidity</b>	90%, non-condensing
<b>Mechanical</b>	
<b>Dimensions (W x H x D)</b>	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.*