

## DVB-S/S2 MODULATOR-V.1.1



DVB-S/S2 Modulator v.1.1 is developed special for professional TV broadcasting. It supports **all modulations** (QPSK-32APSK) with **high MER** (more than 27 dB).

Inputs	
<b>Interface, connector type</b>	ASI, BNC-type
RF output:	
<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>	Optionaly can provide injection of DC and 10 MHz reference
Modulation parameters DVB-S mode	
<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

### Modulation parameters DVB-S2 mode:

<b>Constellation</b>	QPSK / 8PSK / 16APSK / 32APSK
<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>	1–32 MSymbol/s
<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 (optional)
<b>Power injection</b>	for the BUC 24V, 3A (optional)
<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

## 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.*