Regenerator dvb

Regenerator DVB is a professional multi-channel device which allows completely restore a weak noisy signal and transmit in further broadcast. It can regenerate signals of next standards: DVB-T to T, DVB-C to C, DVB-S/S2 to S/S2.

KEY FEATURES:

- From 1 to 8 independent channels of signals regeneration;
- Supported Digital Video Broadcasting standards: T, C, S and S2 (optional);
- Reliable N-type (F or SMA as option) input and output for RF signal;
- Grouping I / O in one (optional);
- The powerful and stable output RF signal;
- High reliability and stability: benefit from its highly reliable hardware and software design;
- Remote control by IP interface;
- Convenient management and maintenance – supports Web browser (with IP option);

Multiple protective mechanisms are included:

- 2 reliable power supplies;
- power failure memory recovery;
- over-voltage;
- over-load;
- short-circuit protection.

Inputs	
The input level	-65 ... -25 dBm
RF Frequency range (DVB-S/S2)	70 MHz-2200 MHz in 1 kHz-steps
RF Frequency range (DVB-C/T)	10 MHz-1100 MHz in 1 kHz-steps
Number of inputs, connector type	RF input N-type (F or SMA as option)
RF Output:	
RFout (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 REF
Modulation parameters DVB-C mode (option)	

Constellation	QAM16 / QAM32 / QAM64 / QAM128 or QAM256 (by request)
Modulation Error Rate (MER)	>45 dB
FEC	not available by DVB-C standart
Symbolrate	1000–7000 kSymbol/s
Bandwidth	defined by symbolrate
Modulation parameters DVB-T mode (option)	
Constellation	QAM16 / QAM32 or QAM64 (by request)
Modulation Error Rate (MER)	>40 dB
FEC	1/2 , 2/3 , 3/4 , 5/6 , 7/8
Symbolrate	-
Bandwidth	5, 6,7,8 MHz
Modulation parameters DVB-S mode (option)	
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 (option)	
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	1–32 MSymbol/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	IP Management
Type of software	Web management
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’’
Weight (approx.)	1RU: 3Kg (6.6 lbs), 2RU: 6Kg (13.2 lbs)

Taking into consideration that we (ROKS PrJSC) 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.*