12-CHANNEL COMBINER-EQUALIZER



12-channel combiner-equalizer is active device designed to combine 12 independent IF carriers (L-band) in the frequency range of 950-2150 MHz with power adjustment and AGC for each channel.

12-channel combiner-equalizer of UMT production is active device specially designed to combine 12 independent IF carriers (L-band, frequency range of 950-2150 MHz) with power adjustment and AGC for each channel.

12-channel combiner equalizer - principle of operation

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Key features:

- AGC
- manual power adjustment
- high output power linearity
- low intermodulation distortions
- small non-uniformity of a group delay
- high output signal stability
- 24/7

12-channel combiner-equalizer has 12 RF inputs for 12 IF carriers and 1 or 2 independent outputs. All inputs and outputs work in L-band. 1st output contains full spectrum combined from 12 inputs and is used for further signal transmitting. The 2d output is used for signal controlling (can be added by request) and has up to 30 dB lower signal power than the 1st input.

12-channel combiner-equalizer can be used in MVDS head-end, professional TV link and TV repeater stations due to its features such as automatic gain control (AGC) which provides high stability of output

RF-signal power. The case of the 12-channel combiner-equalizer is designed for using in standard 19″ rack.

Inputs / Outputs	
Number of inputs, connector type	12 x F-type, Female, 75Ω(N-type, Female, 50Ω– optional)
Output, connector type	1 x F-type, Female, 75Ω(N-type, Female, 50Ω– optional)
AUX Output (-20 dB), connector type	1 x F-type, Female, 75Ω(N-type, Female, 50Ω– optional)
General parameters:	
A working range of frequencies, MHz	950 – 2150
VSWR inputs/outputs, no more than	1.6
Gain flatness	5 dB
The range of power level adjustment into each of channels, dBm	-37 … -7
The Maximum level of the input modulated signal, dBm, no more than	-10
The maximum total output power of the modulated signals on OUT sockets, dBm, no more than	0
Power Supply	
Input Voltage	110-240 VAC, 50/60Hz

Power Consumption	
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: transport mode: 450mm x 45mm x 240mm operating mode: 49cm x 45mm x 270mm
Weight	1RU: * Kg

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.