

Push-Pull transmitter

Headend MMDS MultiSegment Receiving Equipment

Push-Pull transmitter is an optimum solution for building of two-way wireless data communications networks.

Push-Pull transmitter belongs to the transmitter-receiver Push-Pull equipment and is specially developed for data communications networks with high-speed Internet access, common and IP telephony.

Full compatibility with DOCSIS and DOCSIS 2.0 cable modems (CMTS) allows interoperability of headend equipment of different manufacturers. QAM256 support enables data transmission on the maximum data transfer speed.

Large selection of Push-Pull transmitter models provides a possibility to choose a model best fitting the needs of a specific network.

The use of unique MultiSegment technology has made it possible to combine HF upconverter, power amplifier and active phased antenna array in one hermetic enclosure.

Key features:

- Quick deployment of the system
- 100% compatibility with DOCSIS 1.x, DOCSIS 2.x, EuroDOCSIS and DOCSIS+ CMTS
- QAM256 support
- High linearity
- High-performance transmitting antenna in the form of active phased array
- Flexibility and high reliability due to module design
- Opportunity of installing at the extended overall height



Specifications of Push-Pull Transmitter (Standard Models)

Push-Pull transmitter (transmitter & antenna in one package)	MS 2/2 HN 4	MS 3/3 HC 6	MS 4/4 HW 8	MS 6/6 HO 12
Frequency range	2500 – 2686 MHz *			
LO stability	±1,3 kHz			
Output power (1dB compression point, single-tone mode)	4 W	6 W	8 W	12 W
Output spurious	– 60 dB			
Input signal level	85 – 91 dBµV			
Compatibility	DOCSIS 1.x, DOCSIS 2.x, EuroDOCSIS, DOCSIS+			
Supported digital modulation types	QSPK - QAM256			
Horizontal radiation pattern	120°	180°	240°	360°
TX antenna gain	12 dB	10,5 dB	9 dB	7,5 dB
Operating range	12 km			
Operating temperature	-45...+45°C			
Design	100% weatherproof, hermetic enclosure, maintenance-free			
Weight	18 kg			
Physical size	1,2 x Ø 0,17 m			
Crossover				
Input connector	F-type, 75 Ohm			
Crossover -"Push-Pull" transmitter Connector	5/8", 75 Ohm			
Power consumption	115 W			
Design	Indoor use only			
Physical size	480 x 280 x 90 mm			
Weight	7.8 kg			

* - Other designs are available