

TECHNICAL SPECIFICATIONS

MICRO - TRANSPOSER / GAP - FILLER (MRD5010/MRD5050)

RF input		
Signal type	One DTV channel	
Frequency band	470 - 862 MHz (continuous tuning)	
Sensitivity	-75 ... -20 dBm	
Selectivity (Pi = -40 dBm)	> 40 dB ± 4.2 MHz / > 80 dB ± 4.2 MHz (with echo canceller)	
Noise figure	< 6 dB (Pin < -47 dBm)	
RF / IF conversion	Simple conversion	
Connector	BNC (F) 50 ohm	
Return losses	> 18 dB	
Echo canceller		
Cancellation level	> 30 dB	
Maximum echo level	+15 dBc (main signal)	
Delay	4.5 us	
Cancellation window	7.7 us	
RF output		
Signal type	One DTV channel	
Frequency band	470 ... 862 MHz	
Output power by model (before filter) (*)	MRD5010	MRD5050
- DVB-T/H/T2, ISDB-T/Tb	0.3 / 1.25 / 2.5 Wrms	6 Wrms
- ATSC	0.45 / 2 / 3.75 Wrms	9 Wrms
Output power stability	< ± 0.2 dB	
Intermodulation	> 40 dB (MRD5010) / > 38 dB (MRD5050)	
Connector	N (F) 50 ohm	
Return losses	> 18 dB	
Clock and synchronization		
Internal reference	10 MHz	
External reference	10 MHz. Level: 100 mV - 3 Vpp. Connector: SMA (F)	
General		
Temperature	0 ... 45°C	
Relative humidity	95% max. (non - condensing)	
Supply voltage	24 Vdc	
Consumption	23 W / 31 W (MRD5010) with / without canceller - 45 W / 53 W (MRD5050) with / without canceller	
Cooling	Convection / Forced air	
Dimensions (H x D x W)	262 x 250 x 45 mm	
Weight	1.5 Kg approx.	

HOUSING FRAME

Input RF splitter (opt.)	
Number of inputs / Number of outputs	1 to 3 / 7 + 3 of test (max.)
Insertion losses	4 ... 9 dB (depending of number of outputs)
Output combiner (opt.)	
Number of inputs / Number of outputs	6 max. Connector BNC (F) - 50 ohm / 2 max. Connector N (F) - 50 ohm
Insertion losses	1 dB max.
Aux. outputs	-30 dBc
Power supply	
P.S. units	1 (2 optional).
Input / Output voltage	90 - 264 VAC / 24 VDC
Max. power per unit	240 W / 500 W
General	
Dimensions	19" - 6U (10U opt.)
Weight	20 Kg max.
Configuration	Wall mounting, outdoor cabinet or 19" rack

CONTROL UNIT CCU5000

RF Inputs (2X)	
Level	-30 ... -0 dBm
BER post Viterbi	1xE-1 ... 1xE-6
Supervision	Dry contacts, GSM / SNMP / Web Server (opt.)
Power consumption	24 Vdc - 3 W
Dimensions (H x D x W)	262 x 230 x 45 mm
Weight	1.3 Kg

Remark: To comply with the out-of-band emissions regulations and with the required shoulder attenuation, the RF output of the micro devices must be connected to an appropriate filter.