

TECHNICAL SPECIFICATIONS

DVB-T/H/T2			
Standard	EN300744, EN302304, EN302755, TS 102831, TS 102 773 (T2-MI)		
Inputs	2xASI BNC (F), 75 ohm / 2xTSolP 10/100/1000 RJ45.		
FFT	1K (DVB-T2), 2K, 4K, 8K, 16K (DVB-T2), 32K (DVB-T2)		
Code rate	1/2, 2/3, 3/4, 5/6, 3/5 (DVB-T2), 4/5 (DVB-T2)		
Guard interval	1/32, 1/16, 1/8, 1/4, 19/256 (DVB-T2), 19/128 (DVB-T2), 1/128 (DVB-T2)		
Constellation	QPSK, 16QAM, 64QAM, 256QAM (DVB-T2). Rotated and non rotated (DVB-T2)		
ATSC			
Standard	ATSC A/53, A/54, A/64, A/153, A/110B, SMPTE-310M		
Inputs	2xSMPTE BNC (F), 75 ohm - 2xASI BNC (F), 75 ohm		
Constellation	8VSB		
Symbol rate	10.76 Msymbols/s		
Data rate	19.39 Mbits/s		
Trellis coding	2/3		
Reed-Solomon encoder	207 / 187 / 10		
ISDB -T/-T_B			
Standard	ARIB STB-B31, TR-B14		
Inputs	2xASI BNC (F), 75 ohm		
FFT	2K, 4K, 8K		
Code rate	1/2, 2/3, 3/4, 5/6, 7/8		
Guard interval	1/4, 1/8, 1/16, 1/32		
Carrier spacing	4 KHz, 2 KHz, 1 KHz		
Hierarchical modulation	Up to 3 layers		
Constellation	QPSK, 16QAM, 64QAM, DQPSK		
Clock and synchronization			
Internal clock	40 MHz		
External 10 MHz reference	BNC (F). Impedance : 50 ohm / high (selectable). Level: -5 a +10 dBm		
External 1pps reference	BNC (F). Impedance : 50 ohm / high (selectable)		
SFN	SFN resolution : ±100 ns. SFN configurable delay: ±500 ms		
Digital Adaptive Precorrection (*)			
Non-Linear	Amplitude: ±6 dB / Phase: 60°		
Linear	Amplitude: ±3 dB / Delay: ±500 ns		
Clipping	12 dB		
Operation mode	Continuous / Automatic (triggering: time/shoulder level)		
Monitoring:			
- Shoulder level	Measurement of left and right shoulder level		
- Precorrection status	Running / Stopped		
RF output			
Frequency range:	470 ... 800 MHz		
Bandwidth	6, 7, 8 MHz plus 1.7, 5 and 10 MHz for DVB-T2		
Resolution	1 Hz		
Output power (before the filter)	TUWH1050 (**)	TUWH1200 (**)	TUWH1101
- DVB-T/H/T2, ISDB -T/-T _B	5 Wrms	25 Wrms	120 Wrms
- ATSC	5 Wrms	25 Wrms	125 Wrms
Connector	N (F) 50 ohm		
Local and remote control			
LCD Display	Local operation through LCD display and keyboard located on the front panel		
Front RJ-45	Local operation through a Web Server Graphical User Interface		
Rear RJ-45	Remote Network management interface (Web Server and/or SNMP)		
Parallel interface	Floating contacts for messages and commands		
General			
Dimensions (WxHxD mm)	483 (19") x 44,4 (1U) x 444 mm		
Cooling	Forced air		
Relative humidity	95% max. (non-condensing)		
Operation temperature range	+1...45°C		
Power supply	Single - phase: 100VAC ... 240VAC, 47... 63Hz / 48Vdc		
Max. installation altitude	2500 m (> 2500 m on request)		

(*) Static linear and non-linear precorrection is included as default. Digital Adaptive Precorrection is optional but can be activated at any time through a software key.

(**) No Doherty.