

TECHNICAL SPECIFICATIONS

EXCITER

DVB-T/H/T2	
Standard	EN300744, EN302304, EN302755, TS102831, TS102773 (T2-MI)
ASI Inputs	2xASI BNC (F), 75 ohm / 2xTSolP 10/100/1000 base-T RJ-45
FFT size	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, A/110B:2011, SMPTE-310M
Inputs	2xSMPTE BNC (F), 75 ohm - 2xASI BNC (F), 75 ohm
Constellation	8VSB
Data rate	19.39 Mbits/s
Trellis coding	2/3
Reed-Solomon encoder	207 / 187 / 10
ISDB -T/-TB	
Standard	ARIB STB-B31, TR-B14
Inputs	2xASI BNC (F), 75 ohm
FFT size	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
Analog TV	
Standard	B, G, D, K, M, N, I
Inputs	Video BNC (F), 75 ohm, audio CANON (F), 600 / 10 Kohm
Color systems	PAL, NTSC
Clock and synchronization	
Internal clock	10 MHz
External reference	10 MHz BNC (F)
1pps reference	BNC (F)
SFN	SFN resolution = ±100 ns. SFN configurable delay = ±500 ms
Local and remote control	
Display	Local operation through the display and keyboard located on the front panel
RJ-45	Remote network management and local operation interface (Web Server and/or SNMP agent)
Parallel interface	Floating contacts for messages and commands

UHF TRANSMITTER

Digital TV (*)	TE9010	TE9050	TE9100	TE9200	TE9500	TE9151	TE9201
Output power before the filter (DVB-T/H/T2, ISDB-T/Tb)	1.25 Wrms	6 Wrms	12 Wrms	25 Wrms	60 Wrms	150 Wrms	210 Wrms
Output power before the filter (ATSC)	2 Wrms	9 Wrms	18 Wrms	35 Wrms	125 Wrms	225 Wrms	250 Wrms
Number of amplifiers	1 (2U, 9.5")			1 (2U, 19")			2 (2x2U, 19")
Number of racks	0 / 1						
Output RF connector	N (F) 50 ohm			7/16" (F) 50 ohm			
Rack	19", optional						
Analog TV	TAE7200	TAE7101	TAE7201	TAE7371			
Output power (combined)	20 W	100 W	200 W	375 W			
Number of amplifiers	1 (2U, 9.5")	1 (2U, 19")			2 (2x2U, 19")		
Number of racks	0 / 1						
Output RF connector	N (H) 50 ohm			7/ 16" (F) 50 ohm			
Rack	19", optional						
General							
Frequency range	UHF: 470 ... 862 MHz (resolution: 1 Hz)						
Channel bandwidth	6, 7, 8 MHz plus 1.7, 5 and 10 MHz for DVB-T2 ISDB-T/Tb, ATSC: 6 MHz						
Dimensions	Exciter: 1U. Amplifier: 2U (specified in the number of amplifiers box). Control Unit (optional): 2U						
Cooling	Forced air						
Power supply	Single - phase: 100VAC ... 240VAC, 47... 63Hz						
Max. installation altitude	2500 m (> 2500 m on request)						

(*) : The models are referenced according to standard: TE9xxx - DVB-T/H/T2, TE9xxxB - ISDB-T/Tb, TExxA - ATSC
 Example : TE9200B - 25 Wrms ISDB-T/Tb

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