

Product Line Card 2018

Systems

Modules

	1	2	3	4	5	6	
							
	4T2-Portable (4+1 slots available)	4T2-Rack (4+1 slots available)	4T2 broadcast multi probe 3000 (2 slots available)	4T2 broadcast multi probe 1000	XTASI-RF	XTASI-ASI in	
Interfaces	IP UDP/rtp input ASI input ASI output RF terrestrial RF satellite	yes yes optional yes optional	yes yes optional yes optional	yes yes /. yes optional	yes (46.5..870) MHz	yes XTASI-ASI in	
Demodulation	Standard Frequency Range Level MER EVM SNR CSI CS, PJ, AI, QE, STEM, STED Frequency offset Bitrate offset Mode, GI, CR, TPS, Cell ID	DVB-T/-T2 (46.5..870) MHz -85 dBm .. +3dBm /50 Ohm 42 dB (± 1) 0.6 % (± 0.3) 42 dB (± 0.5) 1 % (± 0.2) measured 3 Hz (± 0.5) oven+ext Ref. 0.1 bit/s (± 0.2) displayed	DVB-T/-T2 (46.5..870) MHz -85 dBm .. +3dBm /50 Ohm 42 dB (± 1) 0.6 % (± 0.3) 42 dB (± 0.5) 1 % (± 0.2) measured 3 Hz (± 0.5) oven+ext Ref. 0.1 bit/s (± 0.2) displayed	DVB-T/-T2 (46.5..870) MHz -85 dBm .. +3dBm /50 Ohm 42 dB (± 1) 0.6 % (± 0.3) 42 dB (± 0.5) 1 % (± 0.2) measured 3 Hz (± 0.5) oven+ext Ref. 0.1 bit/s (± 0.2) displayed	DVB-T/-T2 (46.5..870) MHz -85 dBm .. +3dBm /50 Ohm 42 dB (± 1) 0.6 % (± 0.3) /. /. /. /. /. /. /. /.	DVB-T/-T2 (46.5..870) MHz -85 dBm .. +3dBm /50 Ohm 42 dB (± 1) 0.6 % (± 0.3) /. /. /. /. /. /. /. /.	
Error Rates	Results Display Memory	BER pre Viterbi, pre/post Reed Solomon (DVB-T) BER pre LDPC, pre/post BCH (DVB-T2) multi-graph with automatic averaging logfile as csv ASCII	BER pre Viterbi, pre/post Reed Solomon (DVB-T) BER pre LDPC, pre/post BCH (DVB-T2) multi-graph with automatic averaging logfile as csv ASCII	BER pre Viterbi, pre/post Reed Solomon (DVB-T) BER pre LDPC, pre/post BCH (DVB-T2) multi-graph with automatic averaging logfile as csv ASCII	BER pre Viterbi, pre/post Reed Solomon (DVB-T) BER pre LDPC, pre/post BCH (DVB-T2) multi-graph with automatic averaging logfile as csv ASCII	BER pre Viterbi, pre/post Reed Solomon (DVB-T) BER pre LDPC, pre/post BCH (DVB-T2) multi-graph with automatic averaging logfile as csv ASCII	
Spectrum	Displays / Functions Zoom Markers Export functions Spectrum Masks Resolution Bandwidths Video Bandwidths Memory Dynamics Frequency Level	In-band channel spectrum variable 5 independent, 2 shoulders, 1 mouse to clipboard or file supported 3 / 10 / 30 / 100 kHz 300 Hz / 1 / 3 / 10 / 30 / 100 kHz screen memory 55 dB, ± 1 dB 177 Hz, ± 2 E-8 0.1 dB, ± 0.7 dB	In-band channel spectrum variable 5 independent, 2 shoulders, 1 mouse clipboard to clipboard or file supported 3 / 10 / 30 / 100 kHz 300 Hz / 1 / 3 / 10 / 30 / 100 kHz screen memory 55 dB, ± 1 dB 177 Hz, ± 2 E-8 0.1 dB, ± 0.7 dB	In-band channel spectrum variable 5 independent, 2 shoulders, 1 mouse to clipboard or file supported 3 / 10 / 30 / 100 kHz 300 Hz / 1 / 3 / 10 / 30 / 100 kHz screen memory 55 dB, ± 1 dB 177 Hz, ± 2 E-8 0.1 dB, ± 0.7 dB	In-band channel spectrum variable 5 independent, 2 shoulders, 1 mouse clipboard supported 3 / 10 / 30 / 100 kHz 300 Hz / 1 / 3 / 10 / 30 / 100 kHz screen memory 55 dB, ± 1 dB 177 Hz, ± 2 E-8 0.1 dB, ± 0.7 dB	/. /. /. /. /. /. /. /. /. /.	/. /. /. /. /. /. /. /. /. /.
Impulse Response	Displays Zoom Memory Markers Results / accuracy	CIR(pilots), ACF (raw samples) SFN-real power measurement variable screen memory 5 independent, 1 mouse marker readouts (± 1.5 dB, 0.5 µs)	CIR(pilots), ACF (raw samples) SFN-real power measurement variable screen memory 5 independent, 1 mouse marker readouts (± 1.5 dB, 0.5 µs)	CIR(pilots), ACF (raw samples) SFN-real power measurement variable screen memory 5 independent, 1 mouse marker readouts (± 1.5 dB, 0.5 µs)	CIR(pilots), ACF (raw samples) SFN-real power measurement variable screen memory 5 independent, 1 mouse marker readouts (± 1.5 dB, 0.5 µs)	/. /. /. /. /.	
CCDF	Displays Zoom Memory Markers Results / accuracy	CCDF, PAR variable screen memory 5 independent, 1 mouse marker readouts (± 0.5 dB) Crest factor (± 0.5 dB)	CCDF, PAR variable screen memory 5 independent, 1 mouse marker readouts (± 0.5 dB) Crest factor (± 0.5 dB)	CCDF, PAR variable screen memory 5 independent, 1 mouse marker readouts (± 0.5 dB) Crest factor (± 0.5 dB)	CCDF, PAR variable screen memory 5 independent, 1 mouse marker readouts (± 0.5 dB) Crest factor (± 0.5 dB)	/. /. /. /. /.	
Group Delay	Displays Zoom Memory Markers Results / accuracy	Phase, Group Delay, Amplitude response variable screen memory 5 independent, 1 mouse marker readouts (± 0.5 ns)	Phase, Group Delay, Amplitude response variable screen memory 5 independent, 1 mouse marker readouts (± 0.5 ns)	Phase, Group Delay, Amplitude response variable screen memory 5 independent, 1 mouse marker readouts (± 0.5 ns)	Phase, Group Delay, Amplitude response variable screen memory 5 independent, 1 mouse marker readouts (± 0.5 ns)	/. /. /. /. /.	
Coverage Analysis	Displays Channels	RF values and position data from GPS receiver 4 RF channels supported graphical display in user defined maps ASCII file format for automated conversion kml/kmz export into Google map applications	RF values and position data from GPS receiver 4 RF channels supported graphical display in user defined maps ASCII file format for automated conversion kml/kmz export into Google map applications	RF values and position data from GPS receiver 1 RF channel supported graphical display in user defined maps ASCII file format for automated conversion kml/kmz export into Google map applications	RF values and position data from GPS receiver 4 RF channels supported graphical display in user defined maps ASCII file format for automated conversion kml/kmz export into Google map applications	RF values and position data from GPS receiver 4 RF channels supported graphical display in user defined maps ASCII file format for automated conversion kml/kmz export into Google map applications	
Demodulation	Standard Frequency Range Level SNR Bit Errors Eb/N0, Es/N0 Tx Parameters	DVB-S/-S2(x) (950 .. 2150) MHz -69 dBm .. -23dBm /75 Ohm 30 dB (± 1) yes yes yes yes	DVB-S/-S2(x) (950 .. 2150) MHz -85 dBm .. +3dBm /50 Ohm 30 dB (± 1) yes yes yes yes	DVB-S/-S2(x) (950 .. 2150) MHz -85 dBm .. +3dBm /50 Ohm 30 dB (± 1) yes yes yes yes	DVB-S/-S2(x) (950 .. 2150) MHz -85 dBm .. +3dBm /50 Ohm 30 dB (± 1) yes yes yes yes	/. /. /. /. /. /.	
MPEG Transport Stream			Analysis of MPEG-TS PAT, PMT Program Association, and Map Tables Analysis of DVB-, or ATSC-specific Service Information (CAT, SDT, EIT, NIT, TOT, TDT), (MGT, STT, TVCT, EIT, ETT) Analysis of DVB T2-MI Modulator Interface (DVB-T2) Analysis of DVB-T MIP Megaframe Initialisation Packets (DVB-T) Visualisation of PID Packet Identifiers, associated bit-rates, and bit-stuffing; bit rate loqinq Raw data analysis with smart packet-trigger, and bit dependencies checking Smart Packet triaquer with expression editor Visualisation of time repetition intervals of tables as defined in TR.101.290 TR.101.290 analysis and visualisation of first, second, and third priority errors Measurement of PCR Program Clock Reference jitter Multi-Viewer content decoding, including MPEG-4, H.264 and H.265 SD/HD/UHD material, GOP structure display Loudness measurement on audio services Detection of black/freeze conditions on services in the transport stream Detection of audio mute condition on services in the transport stream Comprehensive loqinq features with powerful sorting capabilities Registration of Transport Stream in presence of errors (with history) Simultaneous measurements on different Transport Stream sources (multiple instances of the program run at the same time) Automated scanning algorithm with time scheduler and xml database output Scripting based Alarm and Report function – Relay interface available Remote capability with full SNMP support following the DVB MIB, including Traps				
Special Features	/. power sensor support vehicle power adaptor GPS Receiver Common Interface	display and relay interface (option) power sensor support vehicle power adaptor GPS Receiver Common Interface	spectrum analyser / tracking generator power sensor support vehicle power adaptor GPS Receiver Common Interface	display and relay interface (option) power sensor support vehicle power adaptor GPS Receiver	/. /. GPS Receiver	/. /. /.	
PC configuration	Motherboard CPU RAM Disk Display Audio Interconnection Input devices Network Operating System	Intel H chipset Intel Kaby-Lake 4-core i7-7700 16GB DDR-4 2100 SATA-III SSD >240 GB 15.4" 1440*900 or 1920*1200 WUXGA 2 speakers hdmi, 4x USB-3 Keyboard / touchpad Dual Ethernet (TCP/IP) 2x 1 Gbit/s Windows 10 professional 64bit	Microsoft Surface Pro 4 Intel Skylake i5 4GB DDR-4 PCIe SSD 12.3" 2736*1824 2 speakers / headphone jack Micro-DVI Keyboard / touchpad Ethernet (TCP/IP) 1 Gbit/s Windows 10 professional 64bit	bmp1000 minimum requirements: Passmark CPU index: PM >1000 analysis/single pgm decoding PM >7000 analysis /10 pgm MV	XTASI modules minimum requirements: Passmark CPU index: PM >1000 analysis/single pgm decoding PM >7000 analysis /10 pgm MV	XTASI modules minimum requirements: Passmark CPU index: PM >1000 analysis/single pgm decoding PM >7000 analysis /10 pgm MV	
Mechanical	Dimensions (w x h x d) Weight Power Supply Operating Temperature Storage Temperature Relative Humidity Shock	(420 x 280 x 150) mm 8 kg 47..63 Hz; 90.260 V; 350 W 80+ 0 °C..+ 40 °C -20 °C..+ 50 °C 5% .. 85% (non-condensing) 3 g max	19in x 1u x 250 mm 4.5 kg 47..63 Hz; 90.260 V; 250 W 80+ 0 °C..+ 40 °C -20 °C..+ 50 °C 5% .. 85% (non-condensing) 3 g max	(300 x 280 x 100) mm 4.5 kg 47 ... 63 Hz; 90 ... 260 V; 50 W 0 °C..+ 40 °C -20 °C..+ 50 °C 5% .. 85% (non-condensing) 3 g max	(210 x 170 x 44) mm < 1 kg 47..63 Hz; 90.260 V; 350 W 0 °C..+ 40 °C -20 °C..+ 50 °C 5% .. 85% (non-condensing) 3 g max	(42 x 15 x 86 [100 incl. BNC connector]) mm 110 g through USB 0 °C..+ 40 °C -20 °C..+ 50 °C 5% .. 85% (non-condensing)	

Application Scenarios	recommended features	available in ABC product	Application Scenarios (contd)	recommended features	available in ABC product
Headend	TS over IP input ASI input T2-MI H.265, H.264 Monitor Wall	1, 2, 3, 4, 5, 6	Coverage	Off-air RF-input Field Strength Conversion Calibrated Antenna Map Display kml export multiple channels	1, 2, 3, 4, 5
Transmitter setup and maintenance	DVB-T/T2 terrestrial RF-input MER, MER vs Carriers Shoulder distance Frequency Offset	1, 2, 3, 4	Monitoring	SNMP remote control DVB-MIB Monitor Wall	1, 2, 3, 4, 5, 6
			DSNG	DVB-S/S2 satellite RF-input Content Decoding	1, 2, 3

applications

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Headend	TS over IP input ASI input T2-MI H.265, H.264 Monitor Wall
Transmitter setup and maintenance	DVB-T/T2 terrestrial RF-input MER, MER vs Carriers Shoulder distance Frequency Offset
Coverage	Off-air RF-input Field Strength Conversion Calibrated Antenna Map Display kml export multiple channels
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available in ABC product

1, 2, 3, 4, 5