

DVB-T/T2 ADVANCED MONITORING RECEIVER

Drawing on years of experience and always aiming to expand our product line and to make innovative technology available to all, DEVA introduces a revolutionary tool – the DB2004-T/T2. This is an advanced monitoring probe of the highest quality, fully compliant with DVB-T/T2 standards. With its powerful, DSP based high-end digital tuner, it allows for accurate and dependable monitoring with detailed DVB-T/T2 component information and PID alarms. In addition to advanced encoding and monitoring of the MPEG transport stream, this tool also supports TR 101 290 monitoring, priority 1, 2 and 3. The intuitive navigational menu and the built-in WEB and FTP server make this product extremely user-friendly and easy to install and set up. The DB2004-T/T2 provides a selectable wide range IF filter bandwidth, as well as a spectrum analyzer allowing checks of the RF carrier. It also lets users choose between a predefined DVB channels scan or manual tune. This product offers PLP extraction and TS PLP analysis and adjustable MIN/MAX alarms for RF, SNR, BER and MER. Alarm dispatch can be achieved via email, SNMP ver. 2C or GPO.

Other notable features are the RF Spectrum and Constellation display, the professional ASI input and output and the antenna port with a scalable built-in RF attenuator. The DB2004-T/T2 provides protected access to the device settings and allows for firmware updates, guaranteeing its improved operation. The product also supports both Apple and Android devices.

This advanced remote control and monitoring tool is the ultimate DVB solution, providing accuracy and versatility at an affordable price.



FEATURES

- DVB-T/T2 Compliant Receiver
- High-end Digital Tuner, UHF 21-60 Channel
- Up to 110 dB μ V direct RF Antenna Input
- Advanced MPEG Monitoring and PID Alarms
- Detailed DVB-T/T2 component information
- TR 101 290 Monitoring, Priority 1, 2 and 3
- Predefined DVB channels scan or manual tune
- RF Spectrum & Constellation display
- PLP extraction and TS PLP analysis
- Built-in easy to use WEB and FTP server
- Antenna port with built-in RF attenuator
- Selectable wide range IF filter bandwidth
- Very Intuitive Navigational Menu
- Levels measurement with data history
- Spectrum analyzer allowing checking of the RF Carrier
- Service Availability Error & Service Degradation Error
- Adjustable MIN/MAX alarms for RF, SNR, BER, MER
- Alarm dispatch via E-mail, SNMP ver.2C and GPO
- Professional ASI Input and Output
- LAN port for full TCP/IP remote control and monitoring
- Protected access to the device settings
- SNTP for automatic synchronization of the built-in clock
- LAN port for full TCP/IP remote control and monitoring
- Apple and Android devices support
- Firmware updates will ensure improved operation
- Easy Installation and Setup

SPECIFICATIONS

RF Input	
Tuning Range	Frequency Agile 474-786 MHz; UHF 21-60 Channel
Tuning Step	10kHz
Tuner Sensitivity	30 dB μ V
Antenna Port	N Connector, Female, 50 Ω
Internal Attenuator	0, 10, 20 and 30 dB
RF input level	up to 120 dB μ V
Supported Standards	DVB-T – ETSI EN 300 744; DVB-T2 & T2 Lite – ETSI EN 302 755 v1.3.1, ETSI TS 102 831; T2-MI – ETSI TS 102 773

ASI Input	
Standard	ASI-C MPEG-2 ISO/IEC 13818-1
Input connector	BNC 75 ohm, Female, ASI-C
Input mode	DVB-ASI 188 byte packets

ASI Output	
Standard	ASI-C MPEG-2 ISO/IEC 13818-1
Output mode	188 bytes packet
Output connector	BNC 75 ohm, Female, ASI-C

Communication Interfaces	
Type	RJ45 Connector, Ethernet 10/100 Base-T
Supported Protocols	HTTP, FTP, SMTP, SNMP v2/v2C
Device Discovery	UPnP support

Measurement Storage	
Storage	32GB Build-in Memory Card
Monitoring Logs Data format	Text, CSV

Operating conditions	
Temperature	10°C - 45°C
Humidity	< 75%, non-condensing

Monitoring Features	
RF input level	30-110 dB μ V \pm 1 dB
MER	0 to 40 dB (\pm 1 dB)
SNR	0 to 40 dB (\pm 1 dB)
BER Before-Viterbi(DVB-T)	1x10-2 to 1x10-5
BER Post-Viterbi(DVB-T)	1x10-2 to 1x10-8
BER (DVB-T2)	Before/Post-LDPC, Post-BCH
Signal Lock	Lock/Unlock
Modulation parameters	L1 signaling in DVB-T2, TPS in DVB-T
SFN Monitor	Channel Impulse Response (CIR); Echoes Delay and Power Level alarms
ETSI TR 101 290 Monitor	ETSI TR 101 290 Priority 1, 2 and 3; MPEG-2 TS Monitor, TS (with MIP packet) Network Delay
T2-MI Monitor	Single/Multi-PLP support; ETSI TR 101 290 T2-MI packet, L1 pre/post signaling; T2-MI Network Delay; PLP extraction and TS PLP analysis (ETR 101 290)
QoS	SAE (Service Availability Error), SDE (Service Degradation Error)
Round-Robin Logger	Monitor sequentially multiple channel frequencies or PLPs
RF Spectrum Display	RF Spectrum with SPAN 10 MHz
Constellation Display	QPSK, 16QAM, 64QAM, 256QAM
Other Features	Audio/Video Freeze Detection, DOCSIS Monitoring

Power	
Voltage	100-240V / 50-60 Hz
Power Consumption	20VA
Connector	IEC320, Fused and EMI-suppressed

Size and Weight	
Dimensions (W;H;D)	485 x 44 x 180 mm
Shipping Weight	540 x 115 x 300 mm / 2.700 kg
HS Code	8527212000

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