THE DIVICATCH RF ISDB-T/Tb IS A POCKET ANALYZER CUMULATING ISDB-T/Tb LIVE RECEPTION WITH TS REAL-TIME ANALYSIS, RECORDING AND STREAM PLAYING.

The product provides two levels of real-time analysis:

- **RF**: measures key RF signal parameters (Level, MER, SNR, BER) and indicates the modulation parameters (TMCC, Layers A/B/C) as well as the **Channel Impulse Response** (CIR).
- **Transport Stream**: the 3 priority levels of ETSI TR 101 209 are implemented. Bitrate can be analyzed globally, by service, by PID. Alarm thresholds are customizable.

Baseband streams can be captured using the **ASI input** or the PC’s **IP input**. File-based offline analysis is also available.

The events and trends analyzed over time can be stored into **report files**.

In addition, the DiviCatch RF ISDB-T/Tb can be used as a gateway which retransmits over ASI or IP the baseband stream coming from the RF input. The player functionality allows to have an **ASI output** on the same device, which represents a real added value.

**APPLICATIONS**

- 4-in-1 product: RF + Baseband + Recorder + Player
- Compact (135 x 62 x 27 mm, 160 g) and USB self-powered device
- Receive live ISDB-T/Tb signals
- Analyze/Validate TS Layer in real-time
- All modulation schemes supported (DQPSK, from QPSK to 64QAM)
- Add your own table and specifications Analysis (PSI/SI…)

**CHARACTERISTICS**

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<th>Feature</th>
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<td>1x RF input for ISDB-T/Tb</td>
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<tr>
<td>1x ASI input/output</td>
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<tr>
<td>IP source analysis (from PC)</td>
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<tr>
<td>RF key measurements: signal level, SNR, MER, BER per Layer A/B/C</td>
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<td>Graphical constellation, Channel Impulse Response display</td>
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<td>PIDs and PSI/SI parsing, PCR graphs, BTS specific analysis*</td>
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<tr>
<td>ETSI TR 101 290 validation (Priority 1, 2, 3)</td>
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<tr>
<td>Audio/Video player (H.264/MPEG-4 AVC, MPEG-1/2, AAC, MP3…)</td>
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<td>TS record and playback</td>
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<td>TS over IP forward (PC’s Ethernet interface selection)</td>
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<td>Compatible MS Windows XP/Vista/7/8</td>
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*Contact us for availability

**BENEFITS**

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<td>R&amp;D Streams or Signal Analysis</td>
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<td>ISDB-T/Tb Broadcast Troubleshoot</td>
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ENENSYS TESTSYSTEMS has implemented a new and very intuitive GUI, DiviSuite, which provides customizable monitoring screens. The application integrates a video decoder enabling real-time decoding of all unencrypted services (H.265/HEVC, H.264/MPEG-4 AVC, MPEG-1/2, AAC, MP3…). It also features live stream capture capabilities for baseband multiplex recording into a TS file.

The DiviCatch RF ISDB-T/Tb, a 4-in-1 product featuring both RF and baseband analysis, and both recording and player capabilities, offers a cost-effective test solution for field, lab or head-end applications.
TECHNICAL CHARACTERISTICS

RF
Connector In 1x F-type female - 75 Ω
Sensitivity -80 to 5 dBm / 28 to 114 dBµV
Frequency range 40 to 1000 MHz
Channel bandwidth 6, 7 & 8 MHz
Modulation DQPSK, from QPSK to 64QAM

DVB-ASI
Connector In/Out 1x BNC female - 75 Ω
Max bitrate 140 Mbps

USB Data connector 1x USB2 B-Type

Power supply USB self-powered

Environment Operating temperature -20 to 55 °C / -4 to 131 °F

Physical Dimensions 135 x 62 x 27 mm / 5.3 x 2.4 x 1 in
Weight 160 g

RF MEASUREMENTS
All measurements are made in real-time
Graphical display Constellation, Channel Impulse Response
Signal level -90 to 5 dBm / 18 to 114 dBµV (0.1 dBm resolution)
SNR 0 to 40 dB (0.1 dB resolution)
MER 0 to 32 dB
BER Post-Viterbi, Post-RS PER per Layer A/B/C

SERVICES PROCESSING
MPEG-2/MPEG-4 services decoding (unencrypted programs): video stream display
Recording of the entire multiplex (MPTS/SPTS) into a TS file
Real-time forward of the entire multiplex to ASI or IP (unicast or multicast over UDP streaming)

STREAM PLAYING
Offline TS file stream analysis
Loop/segment play modes
Stream playlist handling
Bitrate auto detection with PCRs
Null Packet Removal

BASEBAND TRANSPORT MONITORING
BTS analyzed in real-time from either source:
- ASI or RF through USB from the DiviCatch
- IP from the PC’s Ethernet interface
Or analyzed offline from source:
- TS file
ETS1 TR 101 290
- Priorities 1, 2 and 3
Service information
- PSI/SI table display for DVB
- PID Summary
Bitrate monitoring
- Overall, by Service (Program), by PID
PCR
- PCR Accuracy graphs

ORDERING CODES
DiviCatch RF ISDB-T/Tb
ISDB-T/Tb Analyzer
Shipped bundled with DiviSuite software for MS Windows XP/Vista/7/8
Providing stream overview, video decoding, stream recording, stream player*

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<tr>
<td></td>
<td>T5 Analyzer</td>
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