DIVICATCH RF-T/C T2/C2

THE DIVICATCH RF-T/C T2/C2 IS A POCKET ANALYZER CUMULATING DVB-T/T2/T2LITE & DVB-C/C2 LIVE RECEPTION WITH MPEG-2 TS REAL-TIME ANALYSIS, RECORDING AND STREAM PLAYING.

The DiviCatch RF-T/C T2/C2 provides real-time analysis at different levels:
- **RF**: measures key RF signal parameters (Level, MER, SNR, BER) and indicates the modulation parameters, the constellation as well as the Channel Impulse Response.
- **MPEG-2 TS**: the 3 priority levels of ETSI TR 101 290 are implemented. Bitrate can be analyzed globally, by service, by PID. Alarm thresholds are customizable.
- **T2-MI**: complete multi-PLP analysis: T2 L1 pre/post signaling, PLP allocation (BB frame, TS, padding/overflow), T2 timestamp, BB frame, ISSY field, PLP extraction; specific DVB-C2 analysis: L1 specific screen, C2 frame composition, data slice parameters.

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

In addition, the DiviCatch RF-T/C T2/C2 can be used as a gateway which retransmits over ASI or IP the baseband stream coming from the RF input. The TS file player functionality allows to have an **ASI output** on the same device, which represents a real added value.

TestTree proposes a real-time analysis application, **DiviSuite**, running on **MS Windows**, connected to the DiviCatch RF-T/C T2/C2 via **USB connectivity** with 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-T/C T2/C2, a 4-in-1 product featuring both RF and baseband analysis, and both TS recording and player capabilities, offers a cost-effective test solution for field, lab or head-end applications.

**APPLICATIONS**
- 4-in-1 product: RF + Baseband + Recorder + Player
- **Compact** (pocket size, 160 g) and USB self-powered
- Receive live DVB-T/T2 & DVB-C/C2 signals
- **All modulation schemes supported** (from QPSK to 256QAM, 4096QAM for DVB-C2)
- **Modulation analysis**: MPEG-2 TS/T2-MI Layer in real-time
- Add your own table and specifications Analysis (PSI/SI, PSIP...)
- A must-have Lab Tool

**CHARACTERISTICS**
- 1x RF input for DVB-T/T2/T2 Lite & DVB-C/C2
- ITU-J83 Annexes A, C (rolloff 0.15) supported
- 1x ASI input/output
- IP source analysis (from PC)
- RF measurements: signal level, SNR, MER, BER
- Graphical constellation, Channel Impulse Response display (DVB-T/T2)
- PIDs and PSI/SI parsing, PCR graphs
- ETSI TS 101 290 validation (priority 1, 2, 3)
- Audio/Video player (H.265/HEVC, H.264/MPEG-4 AVC, MPEG-1/2, AAC, MP3...)
- MPEG-2 TS record and playback
- MPEG-2 TS over IP forward (PC's Ethernet interface selection)
- Compatible MS Windows XP/Vista/7/8/10
- USB self-powered, 160 g

**KEY BENEFITS**
- 4-in-1 product: RF + Baseband + Recorder + Player
- **Compact** (pocket size, 160 g) and USB self-powered
- Receive live DVB-T/T2 & DVB-C/C2 signals
- **All modulation schemes supported** (from QPSK to 256QAM, 4096QAM for DVB-C2)
- **Modulation analysis**: MPEG-2 TS/T2-MI Layer in real-time
- Add your own table and specifications Analysis (PSI/SI, PSIP...)
- A must-have Lab Tool
TECHNICAL CHARACTERISTICS

RF
Connector In 1x F-type female - 75 Ω
DVB-T/T2
Sensitivity -80 to -5 dBm / 28 to 104 dBµV
Frequency range 40 to 1000 MHz
Channel bandwidth 1.7, 5, 7.6 & 8 MHz
Modulation QPSK, 16QAM, 64QAM, 256QAM
FFT mode 1k, 2k, 4k, 8k, 16k extended, 32k, 32k extended
DVB-C/C2
Sensitivity -80 to -5 dBm / 28 to 104 dBµV
Frequency range 40 to 1000 MHz (125 kHz resolution)
Channel bandwidth 6 & 8 MHz
Modulation 16QAM, 64QAM, 128QAM, 256QAM, 1024QAM, 4096QAM
Symbol rate 1.8 to 7.2 Msymbols/s
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

BASEBAND TRANSPORT MONITORING

MPEG-2 TS features analyzed in real-time from either source:
• RF or DVB-ASI through USB from the DiviCatch
• IP from the PC’s Ethernet interface
Or analyzed offline from TS file source

ETSI TR 101 290: priorities 1, 2, 3
Service information
• PSI/SI table display for MPEG, DVB; including private tables
• Service components type and structure
• PID summary
Bitrate monitoring
• Overall, by Service (Program), by PID
PCR Accuracy graphs

BASEBAND TRANSPORT PROCESSING

Audio/video decoding (unencrypted programs): stream display
• H.265/HEVC, H.264/MPEG-4 AVC, MPEG-1/2, AAC, MP3...
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)
TS files playback:
• Loop/segment play modes
• Stream playlist handling, bitrate auto-detection with PCRs
• Null packet removal

T2/C2 SPECIFIC ANALYSIS

Single & Multi-PLP, PLP extraction
DVB-C2: C2 frame, L1, BB frame, data slice, notch parameter
DVB-T2/T2-MI:
• T2 L1 pre/post signaling: frame, cells, OFDM symbols, FEC, interleaving, TI block size
• PLP allocation: BB frame padding, TS padding, TS overflow
• BB frame, ISSY field, T2 timestamp

ORDERING CODES

DiviCatch RF T/C T2/C2
DVB-T2/T2 Lite & DVB-C/C2 Pocket Analyzer
Shipped bundled with DiviSuite Base software for MS Windows XP/Vista/7/8/10

Software options
RF Scope
TS Analyzer
T2-MI Analyzer
RF Analysis
MPEG-2 TS Analysis
T2-MI Analysis
RF + TS Bundle

48H MAX SHIPMENT
All Options Bundle (RF + TS + T2-MI)