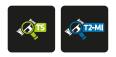




DIVIDUAL ASI+SPI Baseband TS Analyzer



THE **DIVIDUAL ASI + SPI** IS A POCKET ANALYZER PROVIDING TRANSPORT STREAM (MPEG-2 TS, T2-MI, BTS) REAL-TIME ANALYSIS, RECORDING AND STREAM PLAYING, ON BOTH DVB-ASI AND DVB-SPI (LVDS OR TTL) CONNECTORS.

The DiviDual ASI+SPI provides real-time analysis at different levels:

• **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, T2 timestamp, BB frame, ISSY field, PLP extraction.

Baseband streams can be captured using the **DVB-ASI** or **DVB-SPI** inputs or the PC's **IP** input. **LVDS** or **TTL** levels are supported by the DVB-SPI adapter. File-based offline analysis is also available.

The TS file **player** functionality allows to have an **DVB-ASI** and **DVB-SPI outputs** 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 DiviDual ASI+SPI 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 DiviDual ASI+SPI (LVDS or TTL), a 3-in-1 product featuring **baseband analysis**, **recording** and **player** capabilities, offers a cost-effective test and stream player solution for lab or head-end applications.

CHARACTERISTICS

1x DVB-ASI input and 1x DVB-ASI output

1x DVB-SPI input/output(LVDS or TTL levels)

IP source analysis (from PC)

PIDs and PSI/SI parsing, PCR graphs

ETSI TR 101 290 validation (Priority 1, 2, 3)

T2-MI analysis: L1 pre & post signaling, T2 frame statistics, BB frame header, ISSY field, T2 timestamp

BTS analysis: IIP Packet parsing, TMCC alarms

PSIP table display for ATSC 1.0

Audio/Video player (H.265/HEVC, H.264/MPEG-4 AVC, MPEG-1/2, AAC, MP3...)

TS record and playback

TS over IP forward (PC's Ethernet interface selection)

Compatible MS Windows XP/Vista/7/8/10

USB self-powered, 140 g



- \square **TO TEST APPLICATIONS**
- ↘ TO VALIDATE BOTH RF & BASEBAND
- ☑ TO ACHIEVE COST-EFFICIENCY ON BROADCAST NETWORKS

APPLICATIONS

- R&D Streams Analysis and Generation
- Installation & Maintenance Test Tool
- Portable Demonstration Setup

KEY BENEFITS

- 3-in-1 product: Baseband Analyzer + Recorder + Player
- **Compact** (pocket size, **140** g) and USB self-powered
- Analyze/Validate T2-MI, BTS and MPEG-2 TS Layer in real-time
- Add your own table and specifications Analysis (PSI/SI, PSIP...)
- A must-have Lab Tool



TECHNICAL CHARACTERISTICS

DVB-ASI

Connector In	
Connector Out	
Max bitrate	

1 x BNC female - 75 Ω 1 x BNC female - 75 Ω 140 Mbps

USB self-powered

-20 to +55 °C / -4 to 131 °F

DVB-SPI

Connector In/Out

1x D-Sub 25 female (LVDS or TTL) Max bitrate 108 Mbps

USB Data connector 1 x USB2 B-Type

Power supply

Environment

Operating temperature

Physical

Dimensions Weight

115 x 62 x 27 mm / 4.5 x 2.4 x 1 in 140 g

BASEBAND TRANSPORT MONITORING

- TS features analyzed in real-time from either source:
- DVB-ASI or DVB-SPI through USB from the DiviDual
- 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, BTS; including private tables
- PSIP table display for ATSC 1.0 services
- Service components type and structure
- PID summary

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
- Single & Multi-PLP, PLP extraction

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, extracted PLP) 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

ORDERING CODES

DiviDual ASI+SPI	TS over DVB-ASI and DVB-SPI (LVDS or TTL) Analyzer, Recorder, Player Shipped bundled with DiviSuite software for MS Windows XP/Vista/7/8/10	
Software options	TS Analyzer T2-MI Analyzer	TS Analysis T2-MI Analysis

sales@test-tree.com

www.test-tree.com

Copyright 2003-2016 ENENSYS Technologies S.A. - TESTTREE name and logo are registered trademarks of ENENSYS Technologies S.A. DVB is a Trade Mark of the DVB Digital Video Broadcasting Project (1991 to 1996).

ENENSYS Technologies reserves the right to change the specifications without notice.

c/o ENENSYS Technologies | 6 rue de la Carrière CS 37734 | 35577 CESSON-SÉVIGNÉ | FRANCE Tel: +33 (0)170 72 5170 | Fax: +33 (0)2 99 36 03 84

🎨 testtree

