

DIVIDUAL



DIVIDUAL ASI+SPI™

Your own world's finest Analyzer

THE **DIVIDUAL ASI+SPI** IS A POCKET ANALYZER PROVIDING MPEG-2 TS 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:

- **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, 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 **player** functionality allows to have an **DVB-ASI** and **DVB-SPI outputs** on the same device, which represents a real added value.

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.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.



- TO TEST APPLICATIONS
- TO VALIDATE BASEBAND STREAMS
- TO ACHIEVE COST-EFFICIENCY ON BROADCAST NETWORKS

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)
Audio/Video player (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

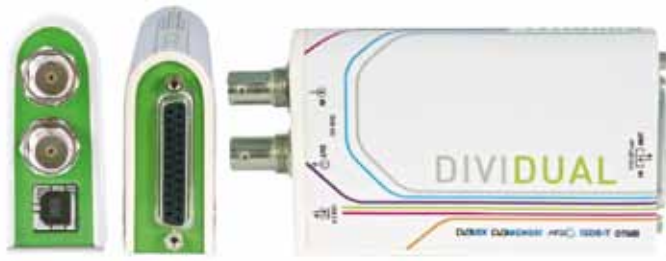
APPLICATIONS

- R&D Streams Analysis and Generation
- Laboratory Test Streams Analysis and Generation in DVB-SPI LVDS or TTL formats
- Installation & Maintenance Test Tool
- Portable Demonstration Setup

BENEFITS

- 3-in-1 product: Baseband Analyzer + Recorder + Player
- **Compact** (115 x 62 x 27 mm, **140 g**) and USB self-powered device
- Work with MPEG-2 TS in **DVB-ASI and DVB-SPI LVDS or TTL formats**
- Analyze/Validate MPEG-2 TS/T2-MI Layer in real-time
- Add your own table and specifications Analysis (PSI/SI, PSIP...)
- A must-have Lab tool

DIVIDUAL ASI+SPI™



TECHNICAL CHARACTERISTICS

DVB-ASI

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

DVB-SPI

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

USB Data connector

1 x USB2 B-Type

Power supply

USB self-powered

Environment

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

Physical

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

BASEBAND TRANSPORT MONITORING

MPEG-2 TS/T2-MI 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 off-line from source:

- TS file

ETSI TR 101 290

- Priorities 1, 2 and 3

Service information

- PSI/SI table display for DVB
- PSIP table display for ATSC services
- PID Summary

Bitrate monitoring

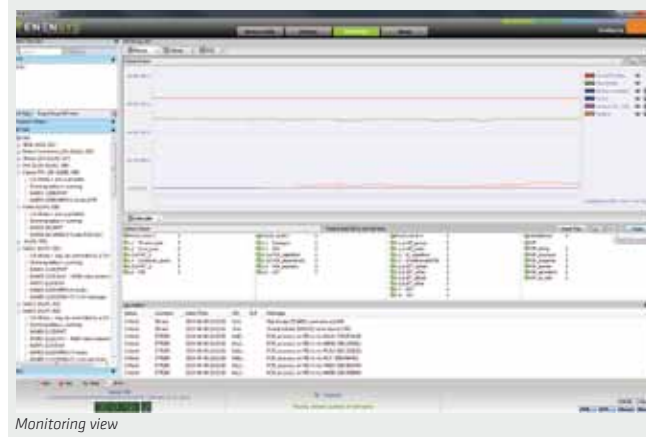
- Overall, by Service (Program), by PID

PCR

- PCR Accuracy graphs



Device configuration



Monitoring view

SERVICES PROCESSING

- MPEG-4/AVC, MPEG-1/2 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 DVB-ASI, DVB-SPI 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

ORDERING CODES

DiviDual ASI+SPI

MPEG-2 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

Plugins **TS Analyzer**

MPEG-2 TS Analysis

T2MI Analyzer

T2-MI Analysis

sales@enensystem.com

www.enensystem.com