



ETI/STI Transport Frame Decoder FD 1000

Bit Stream Analyzer for DAB Networks

- Monitoring, decoding, recording and protocoling the Ensemble-Transport-Interface (ETI) and the Service-Transport-Interface (STI)
 - Used behind the Ensemble Multiplexer and/or before the COFDM
 - ETI decoding acc. to the ETI format in ETS300799
 - STI decoding acc. to the STI format in ETS300797
- Broadcasters of radio stations are required to increase the quality and guarantee a higher signal availability (99.9%/year) while reducing operating costs. A transport stream analyzer is used to increase the quality of digital audio broadcasting. This analyzer allows a continuous measurement of the transport stream and signalizes a degradation of the transmission. By using this monitoring equipment it is possible to reduce the operating costs by locating transport stream errors quickly and easily.

Features

The FD1000 offers the following features:

ETI:

- On-line analysis of the Fast Information Channel (FIC) while showing the complete subchannel and service organizations
- Displaying and monitoring all subchannels within the ETI transport stream
- Displays the subchannel parameters
 - Audio, Stream, or Packet Data
 - Bit rate, Protection Level
 - Status Information
- Display of CRC errors in the header, mainstream as well as in the FIB's of the FIC
- Display and protocoling of dynamic reconfigurations
- Selection of a subchannel and output via the SP-DIF interface; DA converter is optional
- Protocoling of status information and events including time stamps and event filter
- Real-time recording of the complete ETI transport stream, single subchannels or the FIC
- Output of FIC and MSC via a full rate RDI interface to control a data unit for the analysis of MOT data

STI:

- On-line analysis of the control files of the FIC stream

- Displaying and monitoring all audio, data and packet streams found in the STI transport stream
- Displaying of the audio, stream or packet data stream parameters
 - Bit rate
 - CRC Protection level
- Displaying of the synchronization, transport frame and data file errors
- Displaying and protocoling of dynamic reconfigurations
- Selection of an audio stream with output via the SP-DIF interface; DA converter is optional
- Protocoling of status information and events including time stamps and event filter
- Real-time recording of the complete STI transport stream, single streams of the control files

The FD 1000 has a graphical user interface using Windows NT which is easily controlled via keyboard and mouse.

Components

The FD 1000 ETI/STI transport stream decoder contains the following components:

- PC card for ISA bus (format: 333 mm x 114 mm)
- PC software, for Windows NT
- PC-FAN (Fast Information Channel Analyzer)

- FIC search
- Reconfiguration display
- Statistics

Options:

- Portable Pentium PC
- External digital audio converter for audio output

Electrical Interfaces

- G.703 Input (ETI): HDB3 coded, BNC female, 75 Ω
- RS-422 interface, input/output, V.11 level, 25 pin female connector
- Digital output, SP-DIF, RCA female connector
- Optical output (Toslink)

Ordering information

Order designation

ETI/STI Transport Frame Decoder (including SW user interface) FD1000 1110.4506.02

Options

External Digital Audio Converter (for headphones) FD1000W 1110.4606.00
Software Driver (for TS6100 monitoring system) TS61-K91 1110.4658.00



ROHDE & SCHWARZ