JDSU

COMMUNICATIONS TEST & MEASUREMENT SOLUTIONS

DTS MPEG-2 Transport Streams over DVB-Terrestrial COFDM Broadcast Analysis

Realtime monitoring and testing

2007 FROST & SULLIVAN
Global Communications Test & Measurement Company of the Year Award

Key Features

- **Supports DVB-T COFDM modulation scheme per EN 300 744**
- **Complete real-time analysis and monitoring to verify stream contents, service information per EN 300 468, PIDs, rates, timing parameters, TR 101 290 measurements, and MIP data per TS 101 191. Event logs, triggers and reports for baselining and comprehensive monitoring**
- **Modular mainframe allows for easy interchange of multiple interfaces. Access MPEG streams at traditional, RF, or Data test points, and test both the MPEG and carrier signals**
- **Identify problems and collect evidence of faulty equipment or content to maximize response and resolution from vendors and content providers**
- **Monitor both sides of your Terrestrial Broadcast service (i.e. COFDM and ASI) with the same equipment**
- **RF measurements for correlation between MPEG and RF layer issues**
- **Easy-to-use graphical interface minimizes training requirements**

JDSU is proud to introduce the DVB-T Coded Orthogonal Frequency Division Multiplexing (COFDM) terrestrial broadcast interface into the ever-popular DTS MPEG Analyzer. The DVB-T COFDM interface displays useful information about the RF and modulation parameters of the broadcast signal in addition to the in-depth transport stream analysis functions. The DVB-COFDM interface provides the broadcast engineer with a convenient interface that works with hierarchical modulation in multi-frequency and single frequency networks to gain visibility into the underlying "content" or MPEG-2 protocol layer, ensuring programming content and other parameters, such as PCR (timing) data, PSI/SI (table) data, MHP, and DVB-T Mega-frame Initialization Packet information.

Call JDSU today for a demonstration or for more product information.

Specifications

General Specifications

Dimensions	5.5 x 14.5 x 1.2 in (PIM)
Weight	1 lb (PIM)
RF Interface	
RF Interface Type	75 ohm, F connector
Input Return Loss	>6 dB
Tunable Frequency Range	0 to 870 MHz
Channel Bandwidth	7 or 8 MHz, selectable
Maximum Input Signal Level	≤-10 dBm
Nominal Input Level	-30 dBm
COFDM Demodulation	
Modulation	QPSK, 16-QAM, 64-QAM (hierarchical, non-hierarchical)
FFT Length	2000/8000
Code Rates	1/2, 2/3, 3/4, 5/6, 7/8
Guard Interval Factor	1/4, 1/8, 1/16, 1/32
Reed-Solomon	188, 204 byte packets
Mode Detection	Automatic detection from TPS data

COFDM Status Display

- Demodulator Lock and FEC Lock Indicators
- TPS Data Display
- Estimated Channel Power
- Signal-to-Noise Ratio
- Modulation Error Ratio
- Bit Error Rate
- Pre- and Post-FEC Bit Error Rates
- Reed-Solomon Uncorrectable Errors
- Constellation Diagram

Standards Compliance

[1] ETSI EN 300 744 Digital Video Broadcasting (DVB): Framing structure, channel coding, and modulation for digital terrestrial television

[2] TR 101 190 Digital Video Broadcasting (DVB): Implementation guidelines for DVB terrestrial services transmission aspects

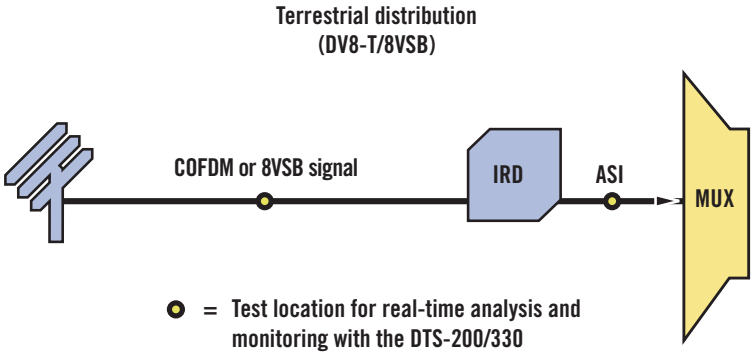
[3] ETSI EN 300 468 Digital Video Broadcasting (DVB): Specification for Service Information (SI) in DVB systems

[4] ETSI TS 101 191 Digital Video Broadcasting (DVB): DVB mega-frame for Single Frequency Network (SFN) synchronization

[5] ETSI TR 101 290 Digital Video Broadcasting (DVB): Measurement guidelines for DVB systems

Ordering Information

COFDM Application Module	
DTS-200 MPEG Analyzer COFDM Interface Module 7553/91.26	7553/91.26
DTS-200 MPEG Analyzer 8VSB Interface Module	7553/91.22
DTS-330 MPEG Analyzer COFDM Interface Module 7554/91.24	I7554/9224
DTS-330 MPEG Analyzer 8VSB Interface Module	I7554/9221
Additional Application modules available	
DTS-200 ASI Analyzer 7553/91.07	7553/91.07
DTS-200 ASI Analyzer/Recorder 7553/91.09	7553/91.09
DTS-200 Gigabit Ethernet Analyzer 7553/91.19	7553/91.19
DTS-200 MPEG Analyzer QAM-8Mhz Interface Module 7553/91.42	7553/91.42
DTS-200 MPEG Analyzer Satellite Interface Module 7553/91.11	7553/91.11
DTS-200 MPEG Analyzer 8VSB Interface Module 7553/91.22	7553/91.22
DTS-330 ASI Analyzer 7554/92.10	I7554/9210
DTS-330 ASI Analyzer/Recorder 7554/92.50	I7554/9250
DTS-330 Gigabit Ethernet Analyzer 7551/92.80	I7554/9280
DTS-330 MPEG Analyzer QAM-8Mhz Interface Module 7554/92.82	I7554/9282
DTS-330 MPEG Analyzer Satellite Interface Module 7554/92.71	I7554/9271
DTS-330 MPEG Analyzer 8VSB Interface Module 7554/91.20	I7554/9221



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