



ISDB-T_{SB} Signal Analysis Solutions

Product Overview

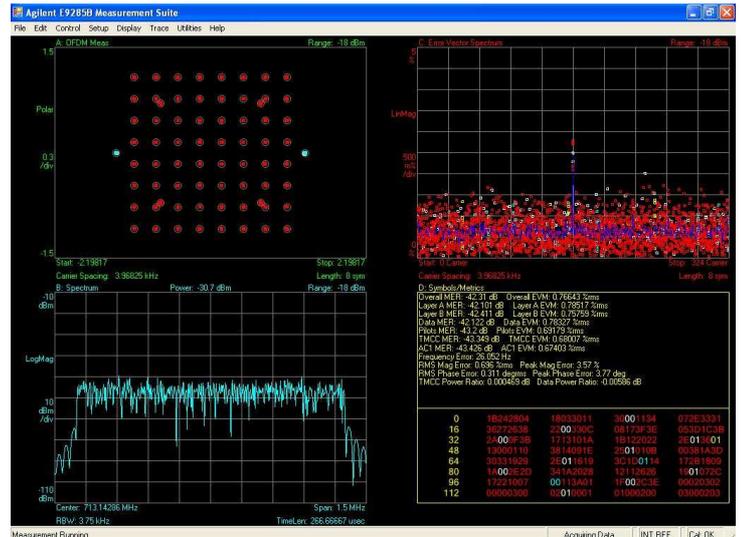
Agilent now offers a new solution for ISDB-T_{SB} (SB means Sound Broadcasting). ISDB-T_{SB} is used for audio and data program transmissions. The system and specifications of ISDB-T_{SB} are similar to ISDB-T, except that the bandwidth is narrower which only uses one or three segments in the channel.

The PC based solution is based on an easy-to-use user interface, which enables you to quickly and easily assess the modulation quality of ISDB-T_{SB} components, modulators or transmitters.

This solution provides the flexibility to capture data from hardware directly or recall the previously recorded data as the input data source. It also offers simple power measurements and powerful modulation analysis for ISDB-T_{SB} standard. The carrier frequency and modulation parameters can be set from the software user interface.

E9285B-H09 is fully compliant with the ISDB-T_{SB} standard and support both one and three segments defined in the standard. Displays include spectrum, channel power, OFDM Measured and Reference constellation diagrams, Symbols/Metrics and Error Vectors Spectrum, Channel Frequency and Impulse Response etc.

Note: This option is available through Agilent Special Handling.



Readouts/displays:

- CCDF
- Channel Frequency Response (including Magnitude Spectrum, Phase Spectrum and Group Delay Spectrum)
- Channel Impulse Response
- Equalizer Frequency Response
- Equalizer Impulse Response
- Error Vector Spectrum
- OFDM Measured
- OFDM Reference
- OFDM Magnitude Error
- OFDM Phase Error
- Symbol/Metrics (Overall MER/EVM, LayerA MER, LayerB MER, Data/Pilots/TMCC/AC1 MER, Frequency Error, Amplitude Error, Phase Error, TMCC Power Ratio, Data Power Ratio)
- Spectrum (including Channel Power)
- Time

Depending on your performance requirements you can choose either a **PSA** series spectrum analyzer, an **E4406A** Vector Signal Analyzer, a VXI-based RF Vector Signal Analyzer (89640S/89641S) or an X-Series (**MXA/EXA**) spectrum analyzer as the front end capture for your signal.



There are options available for each of PSA, E4406A, 89640S/89641S, MXA or EXA which enable this link and should be ordered to complete the solution.

In addition, the E9285B analysis software can be used in conjunction with the Agilent 89601A Vector Signal Analyzer software to measure simulated devices and signals created using the Agilent EEsof EDS software. See <http://eesof.tm.agilent.com> for more details.

Minimum Signal Analyzer Configurations.

1. PSA Configuration
 - E9285B-H06
 - PSA Series spectrum analyser E4440A, E4443A, E4445A, E4446A or E4448A with option B7J
2. E4406A Configuration
 - E9285B-H06
 - E4406A (firmware A.05.01 or later)
3. VXI-based RF Vector Signal Analyzer Configuration
 - E9285B-H06
 - 89640S or 89641S
4. X-Series Spectrum Analyzer Configuration
 - E9285B-H06
 - X-Series spectrum analyzer N9020A or N9010A with option 503, 508, 513 or 526

Minimum Recommended PC Specification

- CPU: 600MHz Pentium or AMD K6 (>2GHz recommended)
- RAM: 512MB (1GB recommended)
- Video RAM: 4MB (16MB recommended)
- Hard Disk: At least 400MB available
- Operating System: Microsoft Windows XP (with .NET Framework 1.1 or later)
- Additional: CDROM drive, Instrument connection (GPIB,GPIB-USB, LAN)

Note: If you already own a copy of 89601A and have this installed on the same PC, the E9285B-H09 will also work with this. 89601A version 8.00 (built based on 8.00 or later) is required for the E9285B to work correctly. See www.agilent.com/find/89601A for upgrade details if necessary.

If you require any further information please contact your local Agilent Sales Office or email support_pdl-cvo@agilent.com

For more information on the signal analyzers, please visit:

- www.agilent.com/find/psa
- www.agilent.com/find/e4406a
- www.agilent.com/find/89640s
- www.agilent.com/find/mxa
- www.agilent.com/find/exa

For more information on digital video, please visit:

- www.agilent.com/find/digital_video
- www.agilent.com/find/E9285B