



Agilent DTMB PC based Signal Analysis for R&D, Production Test, Transmitter Monitoring, Field Test

# DTMB Signal Analysis Solutions

## Product Overview

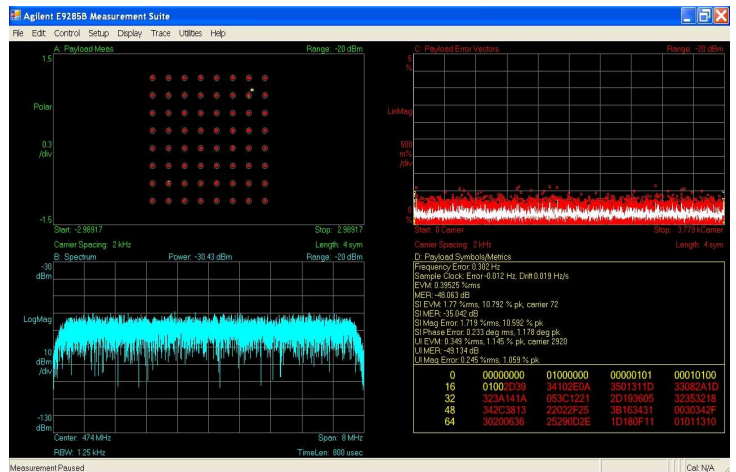
Agilent now offers the DTMB (GB20600-2006) solution.

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 DTMB 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 modulation analysis for both of the carrier types in the DTMB (GB20600-2006) standard: single carrier(C=1) and multi-carriers(C=3780). The carrier frequency and modulation parameters can be set from the software user interface.

**E9285B-H08** is fully compliant with the Chinese DTMB standard (GB20600-2006) and support all of the modes defined in this standard. Displays include Header/Payload Measured or Reference constellation diagrams, Header/Payload Symbols/Metrics and Header/Payload Error Vectors 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
- Header Error Vectors (EVM vs. Symbols)
- Header Measured
- Header Reference
- Header Magnitude Error
- Header Phase Error
- Header Symbols/Metrics (MER, EVM, Mag Error, Phase Error)
- Payload Error Vectors (EVM vs. Subcarriers)
- Payload Measured
- Payload Reference
- Payload Magnitude Error
- Payload Phase Error
- Payload Symbols/Metrics (Overall MER, EVM, Frequency Error, Sample Clock Error, SI MER/EVM, Mag Error, Phase Error, UI MER/EVM, Mag Error, Phase Error)
- 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 a 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 EEs of EDS software. See <http://eesof.tm.agilent.com> for more details.

#### Minimum Signal Analyzer Configurations.

1. PSA Configuration
  - E9285B-H08
  - PSA Series spectrum analyser E4440A, E4443A, E4445A, E4446A or E4448A with option B7J
2. E4406A Configuration
  - E9285B-H08
  - E4406A (firmware A.05.01 or later)
3. VXI-based RF Vector Signal Analyzer Configuration
  - E9285B-H08
  - 89640S or 89641S
4. X-Series Spectrum Analyzer Configuration
  - E9285B-H08
  - 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-H06 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](http://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](mailto:support_pdl-cvo@agilent.com)

For more information on the signal analyzers, please visit:

- [www.agilent.com/find/psa](http://www.agilent.com/find/psa)
- [www.agilent.com/find/e4406a](http://www.agilent.com/find/e4406a)
- [www.agilent.com/find/89640s](http://www.agilent.com/find/89640s)
- [www.agilent.com/find/mxa](http://www.agilent.com/find/mxa)
- [www.agilent.com/find/exa](http://www.agilent.com/find/exa)

For more information on digital video, please visit:

- [www.agilent.com/find/digital\\_video](http://www.agilent.com/find/digital_video)
- [www.agilent.com/find/E9285B](http://www.agilent.com/find/E9285B)