

General Features

- ## Spectrum Analyzer

- ## Interference Analyzer

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- What will the Customer See in this release? MS2717B Application Package V4.02 04-28-2010

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- MS2717B Application Package V4.00 02-23-2010

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- o MA24118A Microwave USB power sensor 10 MHz to 18 GHz
- o MA24126A Microwave USB power sensor 10 MHz to 26 GHz

#### Spectrum Analyzer Enhancements

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New integrated code which includes the Spectrum Analyzer, Interference Analyzer, Channel Scanner and Power Meter

- o This greatly speeds up mode switching between these four measurement modes

General Spectrum Analyzer bug fixes

- o Fixed W and V issue in Field Strength measurement
- o Fixed Zero Span and Counter Marker incompatibility issue
- o Fixed Trace A-B -> C issue
- o Fixed Trace B & C Max & Min hold issues
- o Fixed 750 measurement issue

SCPI remote commands added for Gated Sweep Option

Fixed a bug in recall setup that could cause a power measurement error.

Improved spur performance over previous version of firmware

#### Mobile WiMAX Analyzer

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- Fixed a bug in the display of BSID when DL-MAP is in compressed mode
  - Added absolute power values for preamble power in preamble scanner measurement

#### WCDMA Enhancements

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- Added support for HSPA+ (64 QAM only)
  - Added support for DTX (discontinuous transmission)
  - o AMR (Adaptive Multi-Rate) support is included in this update
  - OTA (Over-the-Air) scanner speed improvement- Approximately twice as fast
  - Improved CDP (Code Domain Power) over the air measurement performance
  - o Lower EVM
  - o More active channels displayed
  - Added RMS Phase Error measurement to Modulation Summary screen
  - Fixed some W-CDMA bugs
  - o Improved ghosting issues in Multi-Path measurement
  - o CDP and Constellation measurements now synchronized in HSDPA screen (option 65)
  - o Fixed manual SC (Scrambling Code) settings in OTA scanner

#### TD-SCDMA Measurement Mode

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- Added CDP (Code Domain Power) marker capability
  - Added CDP Table measurement
  - Added support for MBMS (Multimedia Broadcast Multicast Service)
  - Added SCPI (National Instruments VISA) programming support

#### CDMA Enhancements

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- Added new Limit Test measurement to the OTA (Over-the-Air) option in CDMA
  - CDMA Scanner improvements
  - o Improved PN scan speed by more than 2X
  - o Added PN Increment
  - o Added a 'PN Sort'
  - o Added new Absolute Power measurement field
  - Motorola LMF (base station control software)
  - o Fixed a problem with Motorola LMF compatibility
  - o Added support for Motorola UBS base stations to LMF
  - Fixed Tau measurement problem with Samsung BTS using external-trigger

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- This version of firmware requires that v2.17 or newer of MST be used for USB connectivity.

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What will the Customer See in this release? MS2717B Application Package V1.08 12-12-2008  
(MS2717B\_GPIB Application Package V3.09)

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- Updated Signal Standards and Antenna files to fix errors
- Minor improvement in power on booting time
- Support for handling Compact Flash/USB drives > 4GB
- Removed support for GPIB, this restores the USB connectivity to the MST.

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- Watts unit selection will now scale power results dynamically to mW, uW, pW, etc

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- Added support for 'Script Master' which allows a user to run tests based on scripts generated in MST

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- Added support for MA24104A Inline High Power sensor

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- Fixed several bugs related to Markers and Limit lines
- Users can now enter a specific marker frequency value without the instrument 'snapping' to the closest valid freq point
- Added a new Emission Mask measurement
- Fixed bug where Saved Measurement files contain Trace B and Trace C data even though they are not being used. They are now saved only when the traces are ON when saving

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- Watts unit selection will now scale power results dynamically to mW, uW, pW, etc
- Added support for 'Script Master' which allows a user to run tests based on scripts generated in MST
- Fixed a bug in the EVM calculation that caused some signals to report a higher symbol EVM

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- No changes

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- Fixed a bug where Alternate ACP when BW = 6MHz was junk (~+46dBm)
- Improved responsiveness to button presses

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- What will the Customer See in this release? MS2717B Application Package V1.06 3-3-2008

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#### WCDMA Signal Analyzer Mode

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- CDP view would take up to 1 minute to refresh after closing an input window, this has been fixed.
- Traffic analysis measurement capabilities are added using both code utilization and amplifier capacity.
- Frequency error measurements now has averaging which can be enabled/disabled.
- TRACe? SPEC fixed bug where incorrect data was returned.
- Max amplifier output power was not being set correctly under certain conditions. Now it is properly set.

#### High Accuracy Power Meter Mode

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- With max-hold on, When relative power is turned on the data would be lost. This bug has been fixed.

#### Fixed WiMAX Signal Analyzer Mode

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- New remote commands added:
  - [SENSe:]DEMod:EVSymbol:START:X?;
  - [SENSe:]DEMod:EVSymbol:STOP:X?;
  - [SENSe:]DEMod:EVSCarrier:START:X?;
  - [SENSe:]DEMod:EVSCarrier:STOP:X?;
  - [SENSe:]DEMod:EVSCarrier:START:X?;
  - [SENSe:]DEMod:EVSCarrier:STOP:X?;
  - [SENSe:]DEMod:CONSTln:POINTS?;
  - [SENSe:]DLFLength?;
  - [SENSe:]RF:PVTime:FRAME:START?;
  - [SENSe:]RF:PVTime:FRAME:STOP?;
  - [SENSe:]RF:ACPR:ADJCchannelcount?;
  - [SENSe:]RF:ACPR:MAINchannelcount?
- Improved Auto range time.