

General Caution

Please use a freshly formatted USB Memory Stick for firmware updates.

If there is a firmware update question, please contact Anritsu service support at <https://www.anritsu.com/test-measurement/contact-us> for further information.

What will the customer see in this release?

Product : MS2090A, MS2720xA

Application Package : V2025.9.1

Release Date : Release Sep. 2025

Information below may not apply to every model/option in Product list.

*** NEW FEATURES ***

-> Software

- Added WCDMA P-CPICH and P-CCPCH power measurements.
- Added P-CPICH EVM measurement.
- Added RMS/Avg detector in zero span.
- Added S-CCPCH and PICH power measurements and setup parameters for the same.
- Updated default WCDMA span to 5 MHz.
- Updated SEM mask names(KCA to KR).
- Updated WCDMA SEM mask text to match actual power comparison consistent with 3 GPP mask.
- Updated MapTool mapping theme.
- Added GNSS/Internal periodic trigger in zero span.
- Added RMS/Avg detector in zero span.

*** IMPROVEMENTS ***

-> Software

- Improved Antenna factors for the 2000-2107-R log periodic in the antenna factor table.
- Improved Antenna factor tables for the 2000-2149-R near field probe kit antennas.
- Improved display stuttering.

*** BUG FIXES ***

-> Software

- Fixed graphs only screenshot in CAA_USB mode.
- Fixed incorrect color inversion in CAA_USB screenshot in printable color.
- Fixed incorrect marker units in DTF graph output.
- Fixed REF LEVEL OFFSET parameter title to OFFSET REF LEVEL in the 5G left menu.
- Fixed crash when deleting PNG files.
- Fixed reports can't be viewed after creating them.
- Fixed missing PDF report headers.
- Fixed GPS time synchronization.
- Fixed crash when downloading map tiles.
- Fixed indoor maps not loading when option 17 is installed.
- Fixed outdoor maps are now showing up properly when using the secure communication option 0017 on the instrument.

What will the customer see in this release?

Product : MS2090A, MS2720xA

Application Package: V2024.12.4

Release Date : Release May. 2025

Information below may not apply to every model/option in Product list.

- This patch firmware release adds a feature to support manufacturing process and has no customer facing changes.

What will the customer see in this release?

Product : MS2090A, MS2720xA

Application Package: V2024.12.3

Release Date : Release Feb. 2025

Information below may not apply to every model/option in Product list.

*** NEW FEATURES ***

-> Software

- Adds new option 0007 - Secure data that blocks saving data to internal memory and Frequency/Level blanking.
- Adds support for new THD measurement.
- Adds new option 0105 - 150 MHz Analysis bandwidth.

*** IMPROVEMENTS ***

-> Software

- Adds support for MCC/MNC decoding for Operator/Country display in 5G NR and LTE applications.
- Adds support for MA24103A/MA24105A inline USB power sensors to the HIPM application.
- Adds support for industry standard 16 bit IQ format for saved IQ capture files.

- Adds support for GNSS data in csv logging files.
- Adds support for GNSS data in trace recording files.
- Adds support for tagged trace record/playback.
- Option 0104 enhancement with analysis BW extension from 110 MHz to 120 MHz.
- Adds coverage mapping feature to channel scanner application.
- Increased ring buffer size to better handle pre-trigger data for IQ capture with external and video trigger.
- Adds support for option 0103 - 55 MHz Analysis BW on models MS27201A/MS27200A.
- Adds support for option 0024 - Interference Finder on model MS27200A
- Adds support for option 0005 - Wi-Fi HW on model MS27200A.
- Adds support for option 0006 - Remove Wi-Fi HW on model MS2720xA.

What will the customer see in this release?

Product : MS2090A

Application Package: V2024.4.2

Release Date : Release Jul. 2024

Information below may not apply to every model/option in Product list.

*** IMPROVEMENTS ***

-> Software

- Added support for secondary scale for Normalized Traces in SPA App.

*** BUG FIXES ***

-> Software

- Fixed issue with Map Tool tile downloads progress synchronization.
- Fixed issue with connecting Wi-Fi to SSIDs that contain spaces and Unicode characters.

What will the customer see in this release?

Product : MS2090A

Application Package: V2024.4.1

Release Date : Release Apr. 2024

Information below may not apply to every model/option in Product list.

*** NEW FEATURES ***

-> Software

- Adds new option 0027- Channel Scanner.
- Adds support for 5G/LTE Results summary screens.
- Adds new option 0871 - WCDMA Measurements.
- Adds Frequency error averaging mode to LTE, 5G NR and WCDMA Applications.
- Adds new option 0017- Secure communications for encrypted Communication from PC client to Test instrument.
- Adds support for optional center frequency carry over between modes.
- Adds support for Remote File transfer to and from PC client and test instrument.
- Adds support for Trace normalization in SPA Application.
- Adds support for new option 0003 - TDR (Time Domain Reflectometer) to CAAUSB Application.

*** IMPROVEMENTS ***

-> Software

- Improved LTE multi - PCI measurement sensitivity.
- Improved time stamp accuracy in IQ data capture.
- Updates to Band Configuration tables to conform to latest 3GPP standards.
- Adds support for Measurement and Setup file Checksums to establish data integrity.
- Adds support for display of coverage mapping statistics for the defined power ranges.
- Adds support for ACP and SEM measurements to LTE/5G NR applications.

What will the customer see in this release?

Product : MS2090A

Application Package: V2023.9.2

Release Date : Release Oct. 2023

Information below may not apply to every model/option in Product list.

*** BUG FIXES ***

-> Software

[HHMP-666] Fixed a bug where in some circumstances the current measurement settings will not be retained after a power cycle.

What will the customer see in this release?

Product : MS2090A

Application Package: V2023.9.1

Release Date : Release Sept. 2023

Information below may not apply to every model/option in Product list.

*** NEW FEATURES ***

-> Software

- Adds support for RTSA density display on Remote PC GUI Application.
- Adds support for automatic estimation of interferer location in IA mode triangulation measurements.
- Marker frequency values for OBW Center, upper and lower frequencies added to OBW screen.
- Adds support for new option 0401 - Vision Locate.
- Adds Auto gated UL/DL Interference measurement in 5GNR and LTE applications.
- Adds support for 75 Ohm adaptor and user configurable adaptors.
- Adds support for new Burst Average Power measurement.
- Adds screen theme change icon to top icon bar for fast theme switching.
- Adds support for integrated PDF file viewer.

*** IMPROVEMENTS ***

-> Software

- Adds reset persistence feature in RTSA mode.
- Improves Application switching speed.
- Adds support for USB 488.2 subclass status byte and initiate clear functions.
- Adds support for Transmitter power On and Off dual trace display in C/I measurement.
- Improves clarity and readability of KML files on Google Earth.
- Adds support for Aperture mode setting on HIPM Application.
- Adds support for Segmented and relative limits in SPA Application.
- Adds dual display for Frequency Spectrum and Power versus time graphs.
- Adds support FM Pilot and RDS readout to FM measurement.
- Improved IQ streaming speed to exFAT formatted USB SSD drives.
- Improves Spectrum mode sweep speed by up to 40% (settings dependent).

*** BUG FIXES ***

-> Software

- Fixed frequency rounding error for trace frequency points in csv logging feature.

What will the customer see in this release?

Product : MS2090A

Application Package: V2023.3.1

Release Date : Release Mar. 2023

Information below may not apply to every model/option in Product list.

*** NEW FEATURES ***

-> Software

- Addition of Carrier to Noise measurement in the spectrum analyzer application.
- Adds PDF report generator for CAAUSB application.
- Adds support for AM/FM demodulation measurements.
- Adds Integrated Web Browser.
- Adds Browser based Wi-Fi network authentication.
- Adds display lockout from remote control.

*** IMPROVEMENTS ***

-> Software

- Adds support for indoor map tables.
- Adds RSRP/RSRQ to carrier aggregation measurement.
- Improved readability of mapping points from .kml files on Google Earth.
- Adds support for routing GPS PPS signal to trigger output port.
- Adds auto PCI filtering to LTE/5G coverage mapping.

What will the customer see in this release?

Product : MS2090A

Application Package : V2022.9.2

Release Date : Release Dec. 2022

Information below may not apply to every model/option in Product list.

*** BUG FIXES ***

-> Software

- Fixes some missing BW settings for timed options 9103/9104/9125/9127.
- Fixed a crash issue with rev2 S331P hardware.

- Fixed an issue with wrong DHCP IP address if unit boots without ethernet cable connected.
- Fixed a crash issue with long duration EMF measurements.
- Fixed default file path error for CSV recordings when USB drive is removed.

What will the customer see in this release?

Product : MS2090A

Application Package: V2022.9.1

Release Date : Release Sep. 2022

Information below may not apply to every model/option in Product list.

*** NEW FEATURES ***

-> Software

- Adds CSV data logging in 5NGR and LTE modes.
- Adds shortcut feature for managing multiple setups and modes.
- Adds 5G DDS signal detection in LTE mode.
- Adds Manual Sweep time control in SPA application.
- Adds coverage mapping measurement in LTE and 5GNR modes.
- Adds support for 90 day timed limited instrument option licenses.
- Adds French and Japanese and Spanish and Korean language support.
- Adds support for trace math in spectrum analyzer mode.
- Adds support for Normal detector (Rosenfell detector).
- Adds RSSI measurement to 5GNR mode.
- Adds quick menu access icons when status panel is minimized.

*** IMPROVEMENTS ***

-> Software

- Add ability to filter Multi PCI results by EVM.

- Adds ability to drag ref level on touch screen.
- Adds signal synchronization status light to Multi PCI measurement in 5GNR mode.
- Updates boot up splash screen logo.
- Adds standalone Transmission calibration method to CAAUSB Application.
- Wi-Fi stability and usability improvements.

What will the customer see in this release?

Product : MS2090A

Application Package: V2022.3.3

Windows Client : V2022.3.2

Release Date : Release Jun. 2022

Information below may not apply to every model/option in Product list.

*** NEW FEATURES ***

- > Software
- Added Simplified Chinese language support.

*** IMPROVEMENTS ***

- > Software
- Removed standalone Transmission calibration method from CAAUSB Application.

*** BUG FIXES ***

- > Software
- Fixed Antenna calibration factor application bug in Field strength measurement.
- Fix data truncation issue with transfer of Large IQ captures over slow Ethernet links.

What will the customer see in this release?

Product : MS2090A

Application Package: V2022.3.1

Windows Client : V2022.3.2

Release Date : Release April 2022

Information below may not apply to every model/option in Product list.

*** NEW FEATURES ***

-> Software

- Added new Interference Analyzer mode with support for MA2700A Interference Hunter hardware.
- Added System Override feature to reset unit remotely in case of SCPI failure.
- Added new Time offset corrections in 5GNR Summary view as well as a new Time offset table in 5GNR OTA (Multi-PCI) view.

*** IMPROVEMENTS ***

-> Software

- Added support for BeiDou satellite position search.
- Added manual configuration of OBW bandwidth in LTE mode.
- Improved EVM measurement stability in 5GNR mode.
- Changed 5G Multi PCI measurement label to OTA (Multi PCI) to reflect it's recommended use for measuring over the air signals.

*** BUG FIXES ***

-> Software

- General enhancements and bug fixes.
- Fix Bug related to application of ReadyCal data for 4GHz S331P in CAAUSB app.

- Fixed missing data for carrier aggregation channel 1.

What will the customer see in this release?

Product : MS2090A

Application Package: V2021.11.2

Release Date : Release Dec. 2021

Information below may not apply to every model/option in Product list.

*** BUG FIXES ***

-> Software

- Add back in the Legacy Mode Switch Icon in addition to the Measurement Mode Switch Icon on instruments without option 0019 or 0331 in response to customer requests.

What will the customer see in this release?

Product : MS2090A

Application Package: V2021.11.1

Release Date : Release Nov. 2021

Information below may not apply to every model/option in Product list.

*** NEW FEATURES ***

-> Software

- Adds support for S331P SiteMaster Hardware Option 0331.
- Adds support for Quasi Peak Marker in SPA mode.
- Adds support for high accuracy power meter Option 0019.
- Adds Auto attenuation OFF (attenuation will be set to 30 dB) and the pre-amp OFF at reboot as an optional setting.

- Adds Support for Sample detector in SPA mode.
- Adds support for 200 MHz and 400 MHz Channel Bandwidth in 5GNR FR2 frequency plan.
- Adding support to enable SSB absolute frequency setting.

*** IMPROVEMENTS ***

- > Software
- Adds new icon for MS2090A PC Software.
- Faster measurement cycle time in 5G demodulation measurements.

*** BUG FIXES ***

- > Software
- General enhancements and bug fixes.

What will the customer see in this release?

Product : MS2090A

Application Package: V2021.5.2

Release Date : Release July, 2021

Information below may not apply to every model/option in Product list.

*** BUG Fixes ***

- > Software
- Fixes time offset error in V2021.5.1.

What will the customer see in this release?

Product : MS2090A

Application Package: V2021.5.1

Release Date : Release May. 2021

Information below may not apply to every model/option in Product list.

*** NEW FEATURES ***

-> Software

Adds frequency counter marker resolution setting.

Adds support for indoor coverage mapping with Option 431.

*** IMPROVEMENTS ***

-> Software

Adds support for linear units and new logarithmic units.

General enhancements and bug fixes.

Adds frame power measurements to LTE TDD analysis.

What will the customer see in this release?

Product : MS2090A

Application Package: V2021.3.3

Release Date : Patch March 2021

Information below may not apply to every model/option in Product list.

*** NEW FEATURES ***

Added additional Libraries to the Windows Client to fully support Option 0431.

What will the customer see in this release?

Product : MS2090A

Application Package: V2021.3.2

Release Date : Release March 2021

Information below may not apply to every model/option in Product list.

*** NEW FEATURES ***

-> Software

Adds ability to record and playback traces in SPA and RTSA modes.

Adds Option 431 Coverage Mapping.

Adds ability to control instrument as USB TMC device.

Adds support for IQ streaming to PC via PCIe interface.

Adds AM/FM audio playback to Spectrum Analyzers with Option 24 Interference Finder.

*** IMPROVEMENTS ***

-> Software

General enhancements and bug fixes.

Adds Band 66 to 5G NR band setup options.

What will the customer see in this release?

Product : MS2090A

Application Package: V2020.10.1

Release Date : Release Oct. 2020

Information below may not apply to every model/option in Product list.

*** NEW FEATURES ***

-> Software

- Adds ability for PC software to recall measurement files independently.
- Adds support for Removal of WiFi and Bluetooth with Hardware Option 0006.
- Adds constellation views to LTE and 5G Analyzer modes.
- Adds control channel measurements to LTE Analyzer mode.
- Adds support for Vector Signal Analysis Option 0128.

*** IMPROVEMENTS ***

-> Software

- Adds support for LTE TDD in Option 883.
- Adds WiFi icon for 'on but not connected'.
- Adds Pulse Viewer measurement to Pulse Analyzer.
- Expands negative trigger delay limits for smaller bandwidth IQ captures.
- Adds Trace+PNG save option.
- Adds seconds resolution to timestamp on screenshots.
- Improves transfer speeds to exFAT drives for IQ streaming.

*** BUG FIXES ***

-> Software

- Fixes bug that blocked Galileo satellites.

What will the customer see in this release?

Product : MS2090A

Application Package: V2020.7.3

Release Date : Release September, 2020

Information below may not apply to every model/option in Product list.

*** BUG FIXES ***

-> Software

- Minor bug patches to V2020.7.1
- Removes erroneous mode icons.

What will the customer see in this release?

Product : MS2090A

Application Package: V2020.7.1

Release Date : Release July, 2020

Information below may not apply to every model/option in Product list.

*** NEW FEATURES ***

-> Software

- Adds Pulse Analyzer Option 421.
- Multi PCI measurement added to Option 883 LTE Measurements.

*** IMPROVEMENTS ***

-> Software

- General enhancements and bug fixes.

What will the customer see in this release?

Product : MS2090A

Application Package: V2020.4.2

Release Date : Release Apr. 2020

Information below may not apply to every model/option in Product list.

*** NEW FEATURES ***

-> Software

- Option 444 EMF Measurements.
- Carrier aggregation measurement in 5G Analyzer (Option 888) and LTE Analyzer (Option 883).
- Options 126 IQ Waveform Capture (Export License Free) and Option 127 IQ Waveform Streaming (Export License Free).
- Resource Block Power view added to LTE Analyzer (Option 883).
- IQ streaming file concatenation tool in MS2090A PC Software.
- Option 445 EMF Meter Enabled (requires 2000-1850-R EMF Meter)

*** IMPROVEMENTS ***

-> Software

- Increase maximum trace point limit from 4,001 to 10,001 points.
- User choice to concatenate IQ streaming files.
- Periodic external trigger for gated sweep.
- Audio tone for limit line violations.
- General enhancements and bug fixes.

What will the customer see in this release?

Product : MS2090A

Application Package: V2020.2.1

Release Date : Release Mar. 2020

Information below may not apply to every model/option in Product list.

*** NEW FEATURES ***

-> Software

- Option 124 IQ Waveform Capture and Option 125 IQ Waveform Streaming.

- Time Alignment Error view in LTE.

*** IMPROVEMENTS ***

- > Software
- Support lower RBWs in RTSA.

What will the customer see in this release?

Product : MS2090A

Application Package: V2019.12.1

Release Date : Release Jan. 2020

Information below may not apply to every model/option in Product list.

*** NEW FEATURES ***

- > Software
- Option 883 LTE FDD.
- Field Strength measurement support in Spectrum Analyzer mode. Including units dBm/m2 and dBW/m2.
- Option 400 Vision Monitor Enabled and Option 407 High-Speed Port Scanner Enabled for Vision Monitor.

*** IMPROVEMENTS ***

- > Software
- Add Band 261 configuration to 5G Analyzer.
- Updated EIRP measurement in 5G Analyzer mode to support revised 3GPP specification.
- New units of dBW in Spectrum Analyzer mode.

What will the customer see in this release?

Product : MS2090A

Application Package: V2019.9.1

Release Date : Release Sep. 2019

Information below may not apply to every model/option in Product list.

*** NEW FEATURES ***

-> Software

- Auto detection of 3GPP defined 5G NR sync signal block (SSB) offsets.
- Multi PCI - new measurement in 5G Analyzer.
- New Interference Finder Measurement in Spectrum Analyzer mode. (requires option 0024)

*** IMPROVEMENTS ***

-> Software

- New sweep indicator on sweeping applications.

*** BUG FIXES ***

-> Software

- Support for Mobile Interference Hunter MX280007A.
- Files recalled from Save on Event (SOE) will not recall SOE state.
- Selection boxes are now displayed correctly in the file manager when the Light color theme is used.

What will the customer see in this release?

Product : MS2090A

Application Package: V2019.6.3

Release Date : Patch Release Aug. 2019

Information below may not apply to every model/option in Product list

*** IMPROVEMENTS ***

-> Software
General bug fixes and improvements

What will the customer see in this release?

Product : MS2090A

Application Package: V2019.6.2

Release Date : Patch Release Aug. 2019

Information below may not apply to every model/option in Product list

*** IMPROVEMENTS ***

-> Software
- General enhancements and bug fixes.

What will the customer see in this release?

Product : MS2090A

Application Package: V2019.6.1

Release Date : Quarterly Release Jun. 2019

Information below may not apply to every model/option in Product list

*** NEW FEATURES ***

-> Software

- Added real-time spectrum analyzer (RTSA) functions.
- Zero span capability in Spectrum Analyzer mode.
- Option 89 Zero Span IF Out.
- Trigger and reference port configuration.
- New PCI retrieval SCPI commands.

*** IMPROVEMENTS ***

- > Software
- 5G NR Frequency Error reported in ppm as well as Hz.
- Added support for 240 kHz subcarrier spacing in 5G NR Analyzer.
- Enhanced EIRP settings - cable loss.

What will the customer see in this release?

Product : MS2090A

Application Package: V2019.3.3

Release Date : Release May 2019

Information below may not apply to every model/option in Product list

*** NEW FEATURES ***

- > Software
- General bug fixes and improvements

What will the customer see in this release?

Product : MS2090A

Application Package: V2019.3.2

Release Date : Quarterly Release Mar. 2019

Information below may not apply to every model/option in Product list

*** NEW FEATURES ***

-> Software

Initial Product release version