

# Release Notes

## Production samples release for MTi 1-series v2

Author: Product Manager

Date: July 1, 2018



Symbol	Meaning
+	Added
^	Changed
!	Note
#	Fixed
-	Removed

## 1 About this release

This document details the production samples release for the new product MTi 1-series hardware version 2.0 (IMU, VRU and AHRS) module and the module's development kit (MTi-3-DK).

Table 1: Overview of the MTi Product Portfolio

Product Family	Product versions	Generation	Status
1-series	MTi-1 (IMU) MTi-2 (VRU) MTi-3 (AHRS) MTi-7 (GNSS/INS)	-	Active (Hardware version 2.x)
10-series	MTi-10 (IMU) MTi-20 (VRU) MTi-30 (AHRS)	4 <sup>th</sup> generation	Inactive
		5 <sup>th</sup> generation	Active
100-series	MTi-100 (IMU) MTi-200 (VRU) MTi-300 (AHRS)	4 <sup>th</sup> generation	Inactive
		5 <sup>th</sup> generation	Active
100-series	MTi-G-700 (GPS/INS) MTi-G-710 (GNSS/INS)	4 <sup>th</sup> generation	Inactive
100-series	MTi-G-710 (GNSS/INS)	5 <sup>th</sup> generation	Active

Table 2: Release versions

Release component	Product applicability	New version	Comments
Firmware	MTi-1 MTi-2 MTi-3	<b>1.2.7</b>	Production firmware release.
MT Software Suite	MTi-3-DK	<b>4.9.1</b>	<b>BETA</b> software release with support for MTi-3-DK. See Table 5 for additional product applicability.

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## 2 Notes

- Stable firmware version **1.2.1** for **MTi 1-series (Hardware version 1.x)** modules is available for download from the beta server using Firmware Updater. See <https://base.xsens.com/hc/en-us/articles/208102825-Using-the-Firmware-Updater-with-a-beta-firmware> for instructions.
- The HR (high rate) preset is now available in the Output configuration dialog with the **MT Software Suite 4.9.1**. The data cannot be visualized in the MT Manager graphs but can be viewed in the Device Data viewer and accessed using the exporter.

## 3 Compatibility

Software platform	Notes on support
Windows 10 64-bit, Linux 64-bit (Ubuntu 16.04)	Tested and officially supported
Windows 7 32-bit, Windows 8 64-bit, Windows 7 64-bit and Linux 32-bit (Ubuntu 16.04)	No official support

## 4 Bug fixes, improvements and features

This section details the list of issues tackled in this release for the release components of Firmware (Table 3) and the MT Software Suite (Table 4).

**Table 3: Firmware**

<b>Solved Bugs</b>	#MTIONE-269	Device resets itself if data is not read fast enough when in SPI / I2C mode
	#MTIONE-268	Problems with writing emts
	#MTIONE-258	Z-value FreeAcceleration has an offset of 9.8 for MTi-2 and MTi-3
	#MTIONE-214	Acceleration data often wrong in first packet
	+MTIONE-191	MTi 1-series v2 firmware support
	^MTIONE-165	Sensor and orientation data in different packets for update rates lower than 50 Hz
	#MTIONE-164	Heading reset issue with low output onboard orientation output
<b>New feature</b>	+MTIONE-257	Embedded examples for the MTi 1-series
<b>Improvement</b>	#MTIONE-267	Combination of HR acc/gyr and normal rate acc/gyr not always possible
	+MTIONE-205	Enable glitch filter for capturing inputs making it resistant to noisy input pulses
	^MTIONE-155	Remember ICC DDT value over gotoConfig/gotoMeasurement

**Table 4: MT Software Suite**

<b>Solved Bugs</b>	#MTSDK-4321	GNSS Configuration shows up for devices with no GNSS support
	#MTSDK-4313	MTM crashes when opening status graph with MTi-7 set to high-rate data preset
	#MTSDK-4296	Representative motion (repmo) not working with MTi-7
	#MTSDK-4281	Matlab example 'mainFileLoader' doesn't work for MTi-7
	#MTSDK-4280	Matlab example not working
	^MTSDK-4273	xda.log should not be created until xdaSetLogPath is called

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#MTSDK-4268	Linux xda_c_cpp example has compile error
^MTSDK-4266	MT installer does not install all features by default
^MTSDK-4249	Add GNSS output for MTi-7/MTi-G-710 to XDA C/C++ examples
+MTSDK-4237	Ability to copy more than one line from the message window in MTM
#MTSDK-4223	Alignment matrix changes by itself upon clicking 'Write to MT'
^MTSDK-4222	Add prebuilt examples to the MTSS installer
#MTSDK-4217	Data overflows with FTDI devices
#MTSDK-4202	RotLocal and RotSensor support in load and save config
+MTSDK-4201	Update supportedUpdateRates for high rate (HR) data
+MTSDK-4196	No build time in MT Manager / MFM
+MTSDK-4195	Add max and min limits for pulse width setting in sync options dialog
+MTSDK-4192	MTi-7 return supported update rates for baro pressure
+MTSDK-4191	Update/add documentation links in MT Manager with MTi-7 release
^MTSDK-4190	SatInfo should not be enabled for preset "Onboard"
+MTSDK-4184	Warning setting sync settings MTi-7 with In 1
#MTSDK-4153	In Ubuntu, the MTi stays in Config Mode after pressing Revert
#MTSDK-4151	Fix libicu links in linux MT Manager and MFM readmes
#MTSDK-3960	Show version in title bar of MT Manager
#MTSDK-3915	use LoadLogFile functions in MatLab example (mainFileLoader.m)
+MTSDK-3562	Add recording mtb file to src_cpp example
#MTSDK-3258	Seconds are not exported, result is only zeros
#MTSDK-3235	Text "scenario" shows for the MTi-10 tracker in MT manager
#MFM-69	Error 286 while trying to MFM MTi-7 modules
^MFM-35	MFM resets magnetic calibration
#MTSDK-4226	Multiple tabs opening 'More information' link after toggling 'Check for Beta versions'
#MTSDK-3877	Extended ASCII characters support with createLogFile() in MT SDK
<b>New feature</b>	
+MTSDK-4208	Add HR calibrated outputs preset to MT Manager Output Config dialog
+MTSDK-4207	Add HR calibrated outputs to MT Manager Output Config dialog and remove SCR
<b>Improvement</b>	
+MTSDK-4289	Add new embedded examples for MTi-1s to MTSS installer
^MTSDK-4189	Clean-up of doxygen comments and public code

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### 5 Product overview and current status

The relative release status of all the MTi product components are listed in Table 5.

**Table 5: Complete list of product series and their release status**

Components	Product applicability	Stable version	Beta version	Comments
Firmware	10-series 100-series	<b>1.7.2</b>	1.7.4	5 <sup>th</sup> generation
	MTi-G-710	<b>1.7.2</b>	1.7.4	5 <sup>th</sup> generation
	MTi-1 MTi-2 MTi-3	<b>1.2.7</b>	-	<u>Affected by this release.</u> Hardware version 2.x
	MTi-7	<b>1.2.6</b>	-	-
	10-series 100-series MTi-G-700 MTi-G-710	<b>1.8.2</b>	-	4 <sup>th</sup> generation (Inactive)
MT Software Suite	MTi-3-8A7G6-DK	<b>4.8.0</b>	-	Hardware version 1.x (Inactive)
	MTi-3-DK MTi-7-DK	-	4.9.1	<u>Affected by this release.</u> Hardware version 2.x
	10-series 100-series MTi-G-700 MTi-G-710	<b>4.8.0</b>	-	4 <sup>th</sup> generation (Inactive)
	10-series 100-series MTi-G-710	<b>4.8.0</b>	4.9.1	5 <sup>th</sup> generation
Firmware Updater	MTi Product Family (Table 1)	<b>4.2.3</b>	-	-