Changelog

Author: Product Manager Last updated: April 1, 2020 Document: MT0227P



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

Reference documents

- MT Software Suite changelog

Version 1.11.18

Applies to: 5th generation MTi Release date: March 30, 2020

Compatible MT Software Suite version: 2019.3.2

Release type: Beta

Туре	Reference	Comments
Improvement	MKVFW-89	Increased heading performance for GeneralMag filter profile

Version 1.11.12

Applies to: 5th generation MTi Release date: October, 2019

Compatible MT Software Suite version: 2019.3.2

Release type: Beta

Improvements & features			
Feature	MKVFW-84	+	MTi-G-710 can now initialize to a user-specified heading value

Version 1.11.2

Applies to: 5th generation MTi Release date: March 20, 2019

Compatible MT Software Suite version: 2019.1.2

Release type: Beta

Improvements & features				
Improvement	MKVFW-80	٨	Update to World Magnetic Model 2015v2	

Changelog

Author: Product Manager Last updated: April 1, 2020 Document: MT0227P



Bug Fixes

Version 1.10.0

Applies to: 5th generation MTi Release date: February 14, 2019

Compatible MT Software Suite version: 2019.0.1

Release type: Stable

Improvements & features		
Improvement	MKVFW-17	Added Orientation smoother for MTi-G-710
New Feature	MKVFW-13	Added \$GPRMC output
Bug Fixes		
Bug	MKVFW-20	
Bug	MKVFW-25	
Bug	MKVFW-32	Fixed several rarely occurring minor bugs
Bug	MKVFW-36	
Bug	MKVFW-63	
Bug	MKVFW-65	Corrected \$GPGGA message

Version 1.8.2

Applies to: 4th generation MTi Release date: February 14, 2018

Compatible MT Software Suite version: 4.8.0

Release type: Beta

- # [MKIVFW-48] A settings problem locks up the EMTS client.
- ^ [мкіvғw-98] MAG clip flags are not sticky.
- # [MKIVFW-124] RegAlignmentRotation does not return parameter.
- # [MKIVFW-125] Clipping flags for the magnetometer in MTi-G-710 incorrect.
- # [MKIVFW-128] MTi-G-700 UTC periodically changes from the correct value to an incorrect one.
- # [MKIVFW-129] Position data often wrong in first packet.
- [MKIVFW-130] MTi-G-700/MTi-G-710 FW should not support update rates of 2 and 1 Hz for *GnssPvtData* and *GnssSatInfo*.
- ^ [MKIVFW-132] Status word bit for selftest is 0 with SCR data.
- # [MKIVFW-150] reqUTCTime returns wrong date+time (tomorrow) for MTi-G-710.
- + [MKIVFW-144] Add ReqHardware Version message to MTi Product Family.
- # [MKIVFW-112] Remember ICC DDT value over gotoConfig/gotoMeasurement.

Changelog

Author: Product Manager Last updated: April 1, 2020 Document: MT0227P



Version 1.7.4

Applies to: 4th and 5th generation MTi

Release date: October 10, 2017

Compatible MT Software Suite version: 4.8.2

Release type: Beta

+ [MKIVFW-121] Added possibility to configure USB buffering behavior in order to reduce communication latency. # [MKIVFW-133] Fixed update process of Firmware Update for 5th generation MTi.

Version 1.7.3

Applies to: 4th generation MTi (MTi-G-700 only)

Release date: August 8, 2017

Compatible MT Software Suite version: 4.8

Release type: Stable

[MKIVFW-126] Fixed a bug in the MTi-G-700 where orientation is no longer outputted as soon as the GPS receiver acquired the signal. This patch has no impact for MTi-G-710 devices.

Version 1.7.2

Applies to: 4th and 5th generation MTi

Release date: July 5, 2017

Compatible MT Software Suite version: 4.8

Release type: Stable

- [MKIVFW-105, MTSDK-4002] 5th generation MTi's no longer support legacy mode.
- + [MKIVFW-100, MTSDK-3998] Calibrated Acceleration and Rate of Turn measurements available at 1 kHz.
- + [MKIVFW-116, MTSDK-3982] Added possibility to change navigation platform settings of GNSS module.
- # [MKIVFW-109] Solved situation where MTi would crash when outputting all NMEA strings at 400 Hz.
- # [MKIVFW-104] MTi-G-710s with SendLatest setting no longer outputs old UTC timestamps with new data packets.

Changelog

Author: Product Manager Last updated: April 1, 2020 Document: MT0227P



Version 1.6.3

Applies to: 4th generation MTi Release date: March 31, 2017

Compatible MT Software Suite version: 4.7.2

Release type: Beta

- + [MTSDK-3958, MTSDK-3685, MKIVFW-103] Added 5th generation MTi support, see BASE.xsens.com.
- + [MKIVFW-94, MKIVFW-77, MKIVFW-62] Added 1 PPS synchronization functionality for MTi-G-710 (5th generation only).

Version 1.5.1

Applies to: 4th generation MTi

Release date: December 21, 2016

Compatible MT Software Suite version: 4.7

Release type: Stable

- + IMTIONE-135, MKIVFW-81] Added ICC to Firmware. ICC is a beta feature for MTi-G-700/710.
- + IMTIONE-136, MTSDK-3872, MTSDK-3854, MTSDK-3855] Representative Motion mode, both in firmware and MT Manager.
- + [MTSDK-3856, MTIONE-137] Possibility to store ICC data to non-volatile memory.
- ^ [MTSDK-3698, MTSDK-3787, MTSDK-3807] Gyro Bias Estimation using the No Rotation Update uses a stillness detection mechanism which is more robust to slow rotations and facilitates faster convergence times this improves the functionality of NRU and AHS features.
- ^ [MKIVFW-78, MTSDK-3859] Improved and simplified Gyro Bias estimation status bits.
- # JMKIVFW-85] PHTRO (NMEA-output) has a bug fixed when roll is higher than ±90°.
- # JMTSDK-3785] Fixed Heading initialization in MTi-G-710 when AHS is enabled.
- ^ [MKIVFW-59] When setting a different platform for the GNSS chip it will now be correctly applied without workaround.
- # [MTSDK-3699] Velocity no longer drifts when roll/pitch are not close to 0 deg.
- # [MKIVFW-79] Reverting an MTi-G-710 no longer puts it to Legacy Mode.

Version 1.4.18

Applies to: 4th generation MTi Release date: October 10, 2016

Compatible MT Software Suite version: 4.6.5

Release type: Beta

[^] IMTSDK-3698, MTSDK-3787, MTSDK-3807I Gyro Bias Estimation improved with faster convergence times.

Changelog

Author: Product Manager Last updated: April 1, 2020 Document: MT0227P



- ^[MKIVFW-38, MTSDK-3809] BusId can now be selected for RS485 bus communication. Note: feature may disappear in favor of more versatile addressing features.
- + [MTSDK-3798] Fixed GNSS lock issue.
- + [MKIVFW-34] Add NMEA ZDA string.
- + [MTSDK-3819] Added HighPerformanceEDR filter profile to replace AutomotiveUrbanCanyon, suitable for the same applications.

Version 1.4.16

Applies to: 4th generation MTi Release date: August 10, 2016

Compatible MT Software Suite version: 4.6.3

Release type: Beta

- ^ [МТSDK-3698] When AHS is enabled, cZRU is enabled to be used in conjunction with AHS
- + [MTSDK-3798] Added \$XSVEL (velocity output in ASCII).

Version 1.4.12

Applies to: 4th generation MTi Release date: July 12, 2016

Compatible MT Software Suite version: 4.6

Release type: Stable

- + [MTSDK-3661] Added AHS for all MTi's and MTi-Gs. AHS off by default, also for VRU_general. AHS can be switched on with a boolean in SetOptions.
- ^ [MTSDK-3656] MTi with 15g accelerometers output up to 18g now.
- # [MKIVFW-40] MTi-OEM can be scanned on 2nd UART again.
- # [MTSDK-3764] Fixed timing bug with magnetometer, resulting in heading errors in mag-aided filter profiles.
- #[мтsdк-з699] When the MTi-G-700 is inclined (i.e. roll/pitch not close to 0), the velocity output may be unstable.
- # [MKIVFW-39] Corrected GPGGA string (decimals, timestamp).

Changelog

Author: Product Manager Last updated: April 1, 2020 Document: MT0227P



Version 1.4.10

Applies to: 4th generation MTi Release date: May 20, 2016

Compatible MT Software Suite version: 4.5.6

Release type: Beta

- ^ [мтsdк-1813] High gyro bias is now successfully estimated.
- ^ [MTSDK-3672, MTSDK-3672, MTSDK-3528] Stillness detector improvements result in higher performance for gyro bias estimation functionality.

Version 1.4.6

Applies to: 4th generation MTi Release date: April 11, 2016

Compatible MT Software Suite version: 4.5.4

Release type: Beta

+ [MKIVFW-35] BeiDou support added to the MTi-G-710

Version 1.4.5

Applies to: 4th generation MTi Release date: January 18, 2016

Compatible MT Software Suite version: 4.5

Release type: Stable

- ^ [MTSDK-3512] Significantly improved accuracy of MTi-G-700 and MTi-G-710 during initialization and use of magnetic field
- # [MKIVFW-27] GPGGA output is correct (MTi-G-700)
- # [MKIVFW-29, MTSDK-2670] Trying to store an orientation reset when the MTi-G-700 has a GPS fix will no longer result in a failure to store the orientation reset
- # [MKIVFW-25] A timing difference of 500us has been corrected for in the MTi MkIV
- ^ [мтзрк-3407] Legacy mode deprecated for MTi MkIV; normal mode is default mode for all products now
- ^ [MTSDK-3410] FreeAcceleration output improved after periods of excitation
- # /MKIVFW-22] The magnetometer output will no longer flip polarity when saturated
- # [MTSDK-3294] Sample mixer now correctly subtracts gyroscope bias.
- ^[MKIVFW-28, MTSDK-3407] Default output configuration mode is Normal Mode (no longer Legacy Mode)
- + [MTSDK-3159] Updated World Magnetic Model to WMM2015

Changelog
Author: Product Manager
Last updated: April 1, 2020
Document: MT0227P

