MXS Release history

Version	Date	Change/additions
01.30.00	Jun, 9th 2020	▪ Race Simulators handling
		▪ Added Hour/Date info from GPS tracks
		▪ Added reference speed used to calculate odometers
		▪ Improved k-line handling
		External modules
		No changes
01.28.20	Dec, 4th 2019	▪ Improved setting of LEDs brightness
		▪ Fixed issue on CAN bus off handling of ECU CAN line
		▪ Improved synchronization between data from GPS and local data acquisition
		External modules
		▪ **35.64** GPS Module
		▪ Improved synchronization between data from GPS and local data acquisition
01.28.10	Jul, 5th 2019	▪ Fixed bug in Channel Expansion/TCHub firmware that caused blinking in Race Studio 3 Live Measures
		External modules
		▪ **40.63** Channel Expansion/TC Hub
		▪ Fixed bug that caused blinking in Race Studio 3 Live Measures
01.28.08	Jun, 12th 2019	▪ Fixed CAN protocols with multiplex frames
		External modules
		▪ **40.62** Channel Expansion/TC Hub
		▪ **35.61** GPS Module

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MXS Release history

Version	Date	Change/additions
01.28.03	Feb, 12th 2019	▪ Fixed display artifacts in measures value cleaning

External modules

▪ **01.26.49** GS-Dash
  - ▪ Measures timeout improved
  - ▪ Spansion support
  - ▪ Fix data recall synchronization issue

▪ **01.26.48** Memory Module
  - ▪ Improved support for various models of SD cards

▪ **02.26.51** Shift Light Module
  - ▪ Fixed issues with some ECUs

No changes for the other modules

01.26.46	Dec, 5th 2018	▪ Added management of Shift Light Module

▪ Added the support for auto brightness levels configuration (day brightness level, night brightness level and threshold are now fully configurable)

External modules

No changes

01.26.42	Oct, 30th 2018	▪ Support for CAN Optical Lap (IRM_42)

▪ Set Brightness Mode using Remote button fix

▪ CAN Bus 120 Ohm Resistor setting fix

▪ Optical Beacon blind time fix

External modules

No changes

01.26.38	Oct, 5th 2018	▪ Added possibility to force channels in Online

▪ Fixed bug on Digital output priority handling

External modules

No changes

01.26.28	Apr, 12th 2018	▪ Added remote display management

External modules

▪ **01.26.22** Memory Module

▪ **01.26.28** GS-Dash

▪ **01.26.28** Formula Steering Wheel 3

Version	Date	Change/additions

		▪ **35.58** GPS Module
		▪ **25.47** Lambda
		▪ **40.61** Channel Expansion/TC Hub
		▪ **70.03** Remote buttons interface

01.26.25   Jan 11th 2018

- ▪ Fixed bug when the Start Data Recording standard condition is configured: in some conditions it caused not recorded data
- ▪ Fixed bug in volume sensors with gallons unit measure

External modules

- ▪ **01.26.22**   Memory Module
- ▪ **35.58**   GPS Module
- ▪ **25.47**   Lambda
- ▪ **40.61**   Channel Expansion/TC Hub
- ▪ **70.03**   Remote buttons interface

01.26.24   Nov 14th 2017   - No changes -

01.26.23   Oct 24th 2017

- ▪ Support for CAN builder ID mask feature
- ▪ Consumed fuel channel
- ▪ Fix: Pulse per wheel revolution setting not working for Speed1 or Speed2 digital inputs
- ▪ Fix: wrong order of operands in bias math channel

External modules

- ▪ **01.26.22**   Memory Module
- ▪ **35.58**   GPS Module
- ▪ **25.46**   Lambda
- ▪ **40.60**   Channel Expansion/TC Hub
- ▪ **70.03**   Remote buttons interface

01.26.14   Jul 7th 2017

- ▪ Improved CAN management: more reliability in firmup and configuration transmission

External modules

- ▪ **01.26.14**   Memory Module
- ▪ **35.58**   GPS Module
- ▪ **25.46**   Lambda
- ▪ **40.60**   Channel Expansion/TC Hub: minor bugs fixed
- ▪ **70.03**   Remote buttons interface

MXS Release history

Version	Date	Change/additions
01.26.08	Jun 20th 2017	▪ Memory Module support
		External modules
		▪ **01.26.08** Memory Module
		▪ **35.58** GPS Module
		▪ **25.46** Lambda
		▪ **40.60** Channel Expansion/TC Hub: minor bugs fixed
		▪ **70.01** Remote buttons interface
01.24.54	May 19th 2017	▪ Includes firmware GPS v 35.58.00 that fixes data synchronization with SmartyCam HD
		External modules
		▪ **35.58** GPS Module
		▪ **25.46** Lambda
		▪ **40.60** Channel Expansion/TC Hub: minor bugs fixed
		▪ **70.01** Remote buttons interface
01.24.52	May 18th 2017	▪ Added support for new display configuration (**RaceStudio3 v 3.15.00 required**)
		External modules
		▪ **35.56** GPS Module
		▪ **25.46** Lambda
		▪ **40.60** Channel Expansion/TC Hub: minor bugs fixed
		▪ **70.01** Remote buttons interface
01.24.14	Mar 24th 2017	▪ Fixed bug that caused no data from channels with hysteresis
		External modules
		▪ **35.56** GPS Module
		▪ **25.46** Lambda
		▪ **40.56** Channel Expansion/TC Hub
		▪ **70.01** Remote buttons interface
01.24.13	Mar 24th 2017	▪ Improved accelerometer support: better filtering and uniform sign convention on various devices
		▪ Fixed occasional spikes on accelerometer channels

Version	Date	Change/additions
		External modules
		▪ **35.56** GPS Module
		▪ **25.46** Lambda
		▪ **40.56** Channel Expansion/TC Hub
		▪ **70.01** Remote buttons interface
01.24.00	Jan 26th 2017	▪ Fixed issue that caused CAN network malfunction when remote button device is in the network
		External modules
		▪ **35.56** GPS Module
		▪ **25.46** Lambda
		▪ **40.56** Channel Expansion/TC Hub
		▪ **70.01** Remote buttons interface
01.22.99	Jan 19th 2017	▪ Added management of GPS position accuracy measure for display and CAN output
		▪ Fixed bug in "Backlight" menu voice (icon missed)
		External modules
		▪ **35.56** GPS Module
		▪ **25.46** Lambda
		▪ **40.56** Channel Expansion/TC Hub
		▪ **70.01** Remote buttons interface
01.22.94	Dec 5th 2016	▪ No changes
		External modules
		▪ **35.56** GPS Module
		▪ **25.46** Lambda: fixed bug that caused shifted lambda samples
		▪ **40.56** Channel Expansion/TC Hub
		▪ **70.01** Remote buttons interface
01.22.92	Nov 29th 2016	▪ Fixed bug which prevented editing of Wi-Fi and User parameters from RS3
		▪ Minor improvements
		External modules
		▪ **35.56** GPS Module: improvements in GPS measurements available to SmartyCam overlay
		▪ **25.44** Lambda
		▪ **40.56** Channel Expansion/TC Hub
		▪ **70.01** Remote buttons interface

MXS Release history

Version	Date	Change/additions
01.22.86	Nov 15th 2016	■ Added IRM CAN LAP support

Warning: this firmware release requires Race Studio 3 ver. 3.10.10 or higher.

External modules

- **35.54** GPS Module: improved satellites fix
- **25.44** Lambda: added keep alive support
- **40.56** Channel Expansion/TC Hub
- **70.01** Remote buttons interface

01.22.82	Oct 11th 2016	■ Speed up USB transfer

- Speed up display pages loading at the startup
- Fixed bug in GPS lap management that in some cases caused loss of laps detected

Warning: this firmware release requires Race Studio 3 ver. 3.10.10 or higher.

External modules

- **35.50** GPS Module
- **25.42** Lambda
- **40.56** Channel Expansion/TC Hub: improved analogic channels acquisition
- **70.01** Remote buttons interface

01.22.74	Sep 15th 2016	■ Fixed alarms functionality based on acquisition channels under encryption

- Fixed message alarms that sometimes were partially or totally erased

Warning: this firmware release requires Race Studio 3 ver. 3.10.10 or higher.

External modules

- **35.50** GPS Module
- **25.42** Lambda
- **40.55** Channel Expansion/TC Hub
- **70.01** Remote buttons interface

01.22.60	Jul 25th 2016	■ Fixed: clear alarm by remote buttons

- Fixed: Wi-Fi troubles with TP-link routers
- Fixed: alarm hysteresis condition
- Minor bugfixes and improvements

Warning: this firmware release requires Race Studio 3 ver. 3.10.10 or higher.

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MXS Release history

Version	Date	Change/additions
		External modules
		■ **35.50** GPS Module
		■ **25.42** Lambda
		■ **40.55** Channel Expansion/TC Hub
		■ **70.01** Remote buttons interface

01.22.16 — Jun 17th 2016

- Fixed display issue when 8 pages are configured
- Minor improvements

Warning: this firmware release requires Race Studio 3 ver. 3.10.10 or higher.

External modules
- ■ **35.50** GPS Module
- ■ **25.42** Lambda (fixed issues with channels configured at 5Hz)
- ■ **40.55** Channel Expansion/TC Hub: improvement in measurements accuracy
- ■ **70.01** Remote buttons interface

01.22.14 — Jun 10th 2016

- New track management, compatible with the MyChron5 one
- Test data recall

Warning: this firmware release requires Race Studio 3 ver. 3.10.10 or higher.

External modules
- ■ **35.50** GPS Module
- ■ **25.42** Lambda (fixed issues with channels configured at 5Hz)
- ■ **40.55** Channel Expansion/TC Hub: improvement in measurements accuracy
- ■ **70.01** Remote buttons interface

01.18.21 — Apr 19th 2016

- CAN output support

External modules
- ■ **35.50** GPS Module
- ■ **25.42** Lambda (fixed issues with channels configured at 5Hz)
- ■ **40.55** Channel Expansion/TC Hub: improvement in measurements accuracy
- ■ **70.01** Remote buttons interface

01.18.18 — Mar 11th 2016

- Fixed bug in Custom Position Sensor (the measure was multiplied by 1000)
- Fixed bug in negative measures displayed by SmartyCam

MXS Release history

Version	Date	Change/additions

- Wi-Fi robustness improvements
- New menu option for manually adjustable display brightness

External modules

- **35.50**   GPS Module
- **25.42**   Lambda (fixed issues with channels configured at 5Hz)
- **40.54**   Channel Expansion/TC Hub
- **70.01**   Remote buttons interface

01.18.12	Feb 17th 2016	

- Increased numbers of CAN2 channels to 80
- Fixed gear calibration issue
- Fixed +12 Time Zone that was missing from menu

External modules

- **35.50**   GPS Module
- **25.40**   Lambda
- **40.54**   Channel Expansion/TC Hub
- **70.01**   Remote buttons interface

01.18.07	Dec 23rd 2015	

- Missing default AiM logo added

External modules

- **35.50**   GPS Module
- **25.40**   Lambda
- **40.54**   Channel Expansion/TC Hub
- **70.01**   Remote buttons interface

01.18.06	Dec 4th 2015	

- New WiFi support
- Customizable logo
- Revised menu system:
    - Track display via menu
    - WiFi status
- System parameters editable via RS3 and menu
- Improved and faster test list handling
- Autorecording (standard conditions) will not be triggered by GPS speed alone, RPM or another speed required (avoid false positives)

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MXS Release history

Version	Date	Change/additions

External modules

- **35.50** GPS Module
- **25.40** Lambda
- **40.54** Channel Expansion/TC Hub
- **70.01** Remote buttons interface

01.14.59 Nov 10th 2015

- Support for new board revisions which allow powering off the WiFi module (MXG rev C , MXL2 rev E)

External modules

- **35.50** GPS Module
- **25.40** Lambda
- **40.52** Channel Expansion/TC Hub
- **70.01** Remote buttons interface

01.14.58 Sep 9th 2015

- Fixed bug: minor fix affecting SEAT_SPORT Leon MK3 protocols

External modules

- **35.50** GPS Module
- **25.40** Lambda
- **40.52** Channel Expansion/TC Hub
- **70.01** Remote buttons interface

01.14.57 Aug 6th 2015

- Fixed bug: the measures from CAN Expansions were not displayed on SmartyCam

External modules

- **35.50** GPS Module
- **25.40** Lambda
- **40.52** Channel Expansion/TC Hub
- **70.01** Remote buttons interface

01.14.56 Jun 23rd 2015

- Same as 1.14.55 (this version contains MXL2-only changes)

External modules

- **35.50** GPS Module
- **25.40** Lambda
- **40.52** Channel Expansion/TC Hub
- **70.01** Remote buttons interface

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MXS Release history

Version	Date	Change/additions
01.14.55	Jun 23rd 2015	■ Implemented display luminosity management (Night Vision setting in Display menu: OFF/ON/AUTO)
		■ Remote buttons interface handling added
		■ CAN 2G max frame frequency up to 200 Hz
		■ Minor bugfixes

External modules

- ■ **35.50** GPS Module
- ■ **25.40** Lambda
- ■ **40.52** Channel Expansion/TC Hub
- ■ **70.01** Remote buttons interface

Version	Date	Change/additions
01.14.44	Jun 4th 2015	■ Expansion communication problems: some systems produced with V1.14.42 did not contain expansions firmwares. Upgrading to this version fixes the issue.
		■ Fixed bug: sometimes the change of color of colored measures was delayed w.r.t. the triggering event
		■ Minor bugfixes

External modules

- ■ **35.50** GPS Module
- ■ **25.40** Lambda
- ■ **40.52** Channel Expansion/TC Hub

Version	Date	Change/additions
01.14.42	May 21st 2015	■ Fixed bug on gear calculation when the used speed is GPS speed

External modules

- ■ **35.50** GPS Module
- ■ **25.40** Lambda
- ■ **40.52** Channel Expansion/TC Hub

Version	Date	Change/additions
01.14.41	May 19th 2015	■ Fixed bug: after firmup in some conditions the CAN peripheral configuration may be corrupted (missing channels)
		■ Other minor bugfixes

External modules

- ■ **35.50** GPS Module
- ■ **25.40** Lambda
- ■ **40.52** Channel Expansion/TC Hub

MXS Release history

Version	Date	Change/additions
01.14.38	May 11th 2015	▪ Date/Time automatic synchronization to GPS time in addition to PC, preserving time zone setting ▪ Odometers and lap times can be used as generic display measures ▪ Implemented exit timeout from Messages and Popups according to configuration ▪ New menu system: Date time (Time zone, DST, time format), Odometers, System Info ▪ CAN 1/2 encrypted format management ▪ Alarms/event management improvement **External modules** ▪ **35.50** GPS Module ▪ **25.40** Lambda ▪ **40.52** Channel Expansion/TC Hub
01.12.55	Apr 30th 2015	▪ Added compatibility with RS232 ECU line at 55750 baud
01.12.54	Apr 8th 2015	▪ Fixed bug missing track selected in download file ▪ Added save last display page **External modules** ▪ **35.50** GPS Module ▪ **25.39** Lambda ▪ **40.52** Channel Expansion/TC Hub
01.12.50	Mar 26th 2015	▪ Fixed the time displayed in AM and PM format, that was sometimes wrong ▪ The number of possible total events (used by alarms, popups, messages, etc) has been raised to 48 ▪ Fixed some problems in deleting existing recordings ▪ Fixed misbehavior in event handlings (e.g. disabling did not always work) ▪ Improved crank management ▪ Improved firmware upgrade robustness **External modules** ▪ **35.50** GPS Module ▪ **25.38** Lambda ▪ **40.51** Channel Expansion
01.12.44	Mar 13th 2015	▪ First official release