





Version	Date	Change/additions
01.32.22	Mar, 15th 2023	■ GPS09C support
		External modules
		No changes
01.32.16	Jul, 27th 2022	■ New expansions boards (GSDASH2, Shiftlight_B) support
		External modules
		02.40.10 Shiftlight Module B
		02.40.21 GSDASH2
		01.32.16 GSDASH
01.32.08	Jun, 7th 2022	Fixed GPS data sampling from GPS CAN devices (GPS08/GPS09)
		External modules
		No changes
01.32.00	May, 17th 2022	SmartyCam 3 Sport support
		External modules
		No changes
01.30.44	May, 2nd 2022	■ Fixed digital speed parameters from RS3 configuration setup
		External modules
		No changes







Version	Date	Change/	additions
01.30.38	Feb, 18th 2022	■ Added G	PS09B device support
		External n	nodules
		02.38.03	GPS09B
01.30.06	Nov, 25th 2020	■ Added G	PS09 support
		External n	nodules
			GPS Module: Fix Masterclock received from master that caused bad values in GPS data timestamp
01.30.00	Jun, 9th 2020	■ Race Sim	ulators handling
		■ Added H	our/Date info from GPS tracks
		■ Added re	eference speed used to calculate odometers
		■ Improved	d k-line handling
		External n	nodules
		No change	S
01.28.20	Dec, 4th 2019	■ Improved	d setting of LEDs brightness
		•	ue on CAN bus off handling of ECU CAN line
		Improved	d synchronization between data from GPS and local data acquisition
		External n	nodules
		■ 35.64	GPS Module
			■ Improved synchronization between data from GPS and local data acquisition
01.28.10	Jul, 5th 2019	■ Fixed bug	g in Channel Expansion/TCHub firmware that caused blinking in Race Studio 3 Live Measures
		External n	nodules
		40.63	Channel Expansion/TC Hub
			■ Fixed bug that caused blinking in Race Studio 3 Live Measures
01.28.08	Jun, 12th 2019	■ Fixed CA	N protocols with multiplex frames
		External n	nodules
		40.62	Channel Expansion/TC Hub
		35.61	GPS Module







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 ModuleFixed 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		g when the Start Data Recording standard condition is configured: in some conditions I not recorded data
		Fixed bu	g in volume sensors with gallons unit measure
		External n	nodules
		■ 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 chang	ges -
01.26.23	Oct 24th 2017	Support	for CAN builder ID mask feature
		■ Consum	ed fuel channel
			e per wheel revolution setting not working for Speed1 or Speed2 digital inputs
		■ Fix: wron	ng order of operands in bias math channel
		External n	nodules
		= 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	Improve	d CAN management: more reliability in firmup and configuration transmission
		External n	nodules
		= 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







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
01.24.14	Wai 24012017	External modules
		35.56 GPS Module
		25.46 Lambda40.56 Channel Expansion/TC Hub
		■ 70.01 Remote buttons interface
		70.01 Remote battons menace
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	In 2046 2017	■ Fixed issue that caused CAN network malfunction when remote button device is in the network
01.24.00	Jan 26th 2017	Fixed issue that caused CAN network manufaction 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
01.22.32	1100 29111 2010	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







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.

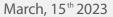






Version	Date	Change/additions
		External modules
		35.50 GPS Module
		25.42 Lambda
		■ 40.55 Channel Expansion/TC Hub
		■ 70.01 Remote buttons interface
01.22.16	Jun 17th 2016	■ Fixed display issue when 8 pages are configured
	34	Minor improvements
		Warning: this firmware release requires Race Studio 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
04 40 34	A 104h 2016	■ CAN output support
01.18.21	Apr 19th 2016	
		■ 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)
V1.10.10	iviai i i tili 2010	Fixed bug in negative measures displayed by SmartyCam Fixed bug in negative measures displayed by SmartyCam
		- Tinea bag in negative measures displayed by smartycam







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Version	Date	Change/additions
V C 1 3 1 U 1 1	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 Hub70.01 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 De

Dec 23rd 2015 Missing default AiM logo added

External modules

- **35.50** GPS Module
- **25.40** Lambda
- 40.54 Channel Expansion/TC Hub70.01 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)







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





March, 15th 2023

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
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 eventMinor bugfixes
		External modules
		35.50 GPS Module
		25.40 Lambda
		40.52 Channel Expansion/TC Hub
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
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







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 fileAdded 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