



Version	Date	Change/additions	
01.32.30	Dec, 1st 2023	■ External modules updates	
		External modules	
		25.49 LCU-One LCU-One CAN (improved warm up handling)	
		■ 01.32.30 GS-Dash Fixed Predictive / +-RefTime measures visualization	
01.32.26	Jul, 4th 2023	■ Added ACC support	
		External modules	
		No changes	
01.32.22	Mar, 15th 2023	Fix GPS samples acquisition that in could cause not recorded data	
		■ GPS09C support	
		External modules	
		No changes	

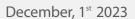






Version	Date	Change/additions
01.32.16	Jul, 27th 2022	 New expansions boards (GSDASH2, Shiftlight_B) support External modules 02.40.10 Shiftlight Module B 02.40.21 GSDASH2 01.32.16 GSDASH
01.32.08	Jun, 7th 2022	■ Fixed GPS data sampling from GPS CAN devices (GPS08/GPS09) External modules No changes
01.32.00	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
01.30.38	Feb, 18th 2022	 Added GPS09B device support External modules 02.38.03 GPS09B
01.30.30	Aug, 6th 2021	 Fixed bad GPS data synchronization (that caused shorter lap times and GPS speed acquisition) External modules 02.36.64 GPS09 Module
01.30.06	Nov, 25th 2020	 Added GPS09 support External modules 35.65 GPS Module: Fix Masterclock received from master that caused bad values in GPS data timestamp
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

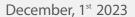






Version	Date	Change/additions			
01.28.20	11.28.20 Dec, 4th 2019 Fixed issue on CAN bus off handling of ECU CAN line		ue on CAN bus off handling of ECU CAN line		
		Improved synchronization between data from GPS and local data acquisition			
		External modules			
		35.64	GPS Module		
			Improved synchronization between data from GPS and local data acquisition		
01.28.10	Jul, 5th 2019	■ Fixed bug	g in Channel Expansion/TCHub firmware that caused blinking in Race Studio 3 Live Measures		
		External m	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 CAI	N protocols with multiplex frames		
		External modules			
		40.62	Channel Expansion/TC Hub		
		■ 35.61	GPS Module		
01.28.03	Feb, 12th 2019	■ Fixed disp	olay artifacts in measures value cleaning		
		External m	nodules		
		01.26.49			
			Measures timeout improvedSpansion 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	s for the other modules		
01.26.46	Dec, 5th 2018	■ Added m	anagement of Shift Light Module		
		External m	nodules		
		No changes	s		

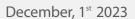






Version	Date	Change/additions		
01.26.42	Oct, 30th 2018	■ Support for CAN Optical Lap (IRM_42)		
		■ Set Brightness Mode using Remote button fix		
		CAN Bus 120 Ohm Resistor setting fix		
		Optical Beacon blind time fix		
		External modules		
		No changes		
01.26.38	Oct, 5th 2018	 Added possibility to force channels in Online 		
		Fixed bug on Digital output priority handling		
		External modules		
		No changes		
01.26.28	Apr, 12th 2018	Fixed bug in remote display configuration		
		External modules		
		■ 01.26.22 Memory Module		
		01.26.28 GS-Dash		
		■ 01.26.28 Formula Steering Wheel 3		
		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		
		01.26.22 GS-Dash		
		01.26.22 Formula Steering Wheel 3		
		35.58 GPS Module		
		25.47 Lambda		
		■ 40.61 Channel Expansion/TC Hub		







Version	Date	Change/a	additions
		= 70.03	Remote buttons interface
01.26.24	Nov 14th 2017	■ Fix locku	p at power up for some devices
		External m	nodules
		■ 01.26.22	Memory Module
		= 01.26.22	
			Formula Steering Wheel 3
		■ 35.58	GPS Module
		25.46	Lambda
		40.60	Channel Expansion/TC Hub
		70.03	Remote buttons interface
01.26.23	Oct 24th 2017	■ Support f	for CAN builder ID mask feature
01120125	00021012017		ed fuel channel
			per wheel revolution setting not working for Speed1 or Speed2 digital inputs
		Fix: wron	g order of operands in bias math channel
		External m	nodules
		■ 01.26.22	Memory Module
		01.26.22	GS-Dash
		01.26.22	Formula Steering Wheel 3
		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 m	nodules
		■ 01.26.14	Memory Module
		01.26.14	GS-Dash
		01.26.14	Formula Steering Wheel 3
		35.58	GPS Module
		25.46	Lambda
		40.60	Channel Expansion/TC Hub: minor bug fixed
		70.03	Remote buttons interface

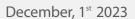






Version	Date	Change/additions
01.26.08	Jun 20th 2017	■ Memory Module support
		External modules
		■ 01.26.08 Memory Module
		■ 01.26.08 GS-Dash
		■ 01.26.08 Formula Steering Wheel 3
		■ 35.58 GPS Module
		25.46 Lambda
		■ 40.60 Channel Expansion/TC Hub: minor bug fixed
		■ 70.01 Remote buttons interface
01.24.56	Jun 1st 2017	■ Fixed rolling lap time on GS-Dash and Formula Steering Wheel 3
		External modules
		■ 01.24.56 GS-Dash
		■ 01.24.56 Formula Steering Wheel 3
		35.58 GPS Module
		25.46 Lambda
		■ 40.60 Channel Expansion/TC Hub: minor bug 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
		■ 01.24.54 GS-Dash
		■ 01.24.54 Formula Steering Wheel 3
		35.58 GPS Module
		25.46 Lambda
		■ 40.60 Channel Expansion/TC Hub: minor bug fixed
		■ 70.01 Remote buttons interface
01.24.52	May 18th 2017	■ Fixed GPS Data visualization on GS-Dash and Formula Steering Wheel 3
		External modules
		■ 01.24.52 GS-Dash
		■ 01.24.52 Formula Steering Wheel 3

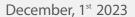






Version	Date	Change/additions
		35.56 GPS Module
		■ 25.46 Lambda
		■ 40.60 Channel Expansion/TC Hub: minor bug fixed
		■ 70.01 Remote buttons interface
01.24.45	Apr 19th 2017	Fixed bug in AiM digital speed channels when 'Ang Velocity' is selected (i.e. RPM setting)
		External modules
		■ 35.56 GPS Module
		■ 25.46 Lambda
		■ 40.56 Channel Expansion/TC Hub
		■ 70.01 Remote buttons interface
01.24.38	Apr 5th 2017	■ Support for Formula Steering Wheel 3 configuration
		External modules
		■ 35.56 GPS Module
		■ 25.46 Lambda
		40.56 Channel Expansion/TC Hub
		70.01 Remote buttons interface
01.24.34	Mar 24th 2017	■ Added GS-Dash management
01.24.34	Widi Z Itil 2017	Improved accelerometer support: better filtering and uniform sign convention on various devices
		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

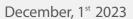






Version	Date	Change/additions
01.22.99	Jan 19th 2017	Added management of GPS position accuracy measure for CAN output
		External modules
		35.56 GPS Module
		25.46 Lambda
		■ 40.56 Channel Expansion/TC Hub
		■ 70.01 Remote buttons interface
01.22.94	Dec 5th 2016	■ No changes
		External modules
		■ 35.56 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	Minor improvements
		External modules
		■ 35.56 GPS Module: improvements in GPS measurements available to SmartyCam overlay
		25.44 Lambda
		40.56 Channel Expansion/TC Hub70.01 Remote buttons interface
		= 70.01 Remote buttons interface
01.22.86	Nov 15th 2016	Added IRM CAN LAP support
		External modules
		■ 35.54 GPS Module: improved satellites fix
		35.54 GPS Module: improved satellites fix25.44 Lambda: added keep alive support
		■ 25.44 Lambda: added keep alive support







Version	Date	Change/additions
01.22.82	Oct 11th 2016	■ Speed up USB transfer
		Fixed bug in GPS lap management that in some cases caused loss of laps detected
		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
		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: alarm hysteresis condition
		Minor bugfixes and improvements
		External modules
		35.50 GPS Module
		= 25.42 Lambda
		■ 40.55 Channel Expansion/TC Hub
		■ 70.01 Remote buttons interface
	1.14 . 2046	- Fixed has alling of analytic of Alicability of CANA associated as a science of
01.20.68	Jul 1st 2016	 Fixed: handling of enabling /disabling of CAN termination resistance External modules
		■ 35.50 GPS Module
		■ 25.42 Lambda
		40.55 Channel Expansion/TC Hub
		■ 70.01 Remote buttons interface