

HIGHLIGHTS 2025



Always on track.





aim-sportline.com

RS3
RACESTUDIO

GT32

aim

YOKOHAMA

YOKOHAMA

Index

| | | | |
|------------------------------|----|----------------------|----|
| MyChron6 _____ | 12 | EPM08/EPM32 _____ | 60 |
| MXT 1.3/MXT Strada 1.3 _____ | 18 | GPS09c _____ | 64 |
| SW4 _____ | 22 | ACC2 _____ | 68 |
| GT32 _____ | 26 | LCU1S _____ | 72 |
| XLog _____ | 30 | Keypad Series _____ | 76 |
| ECULog _____ | 32 | OPEN Devices _____ | 80 |
| CANKey _____ | 36 | Eclipse Series _____ | 84 |
| SmartyCam Series _____ | 40 | Python _____ | 88 |
| PDM08/PDM32 _____ | 56 | Taipan Y v2 _____ | 92 |
| | | Taipan K _____ | 93 |

AiM, Motorsport since 1994

AiM's journey started with karts in 1994 and since then the company has expanded in any field of motorsport.

The mission is to create simple, effective and intuitive devices to improve vehicle, driver and team work performances thanks also to the technical support and dedicated softwares.

Loggers, GPS, steering wheels, ECUs, PDMs and video cameras are only some of the product lines that AiM continue to improve through the research department with more than 30 software/hardware developers and engineers on a total workforce of one hundred people.

Completely in-house development and production of:

- **HARDWARE**
- **FIRMWARE**
- **SOFTWARE**
- **MECHANICAL PARTS**



The powerful software

RaceStudio 3 is the “cockpit” of all our devices, as it will manage all your activities.

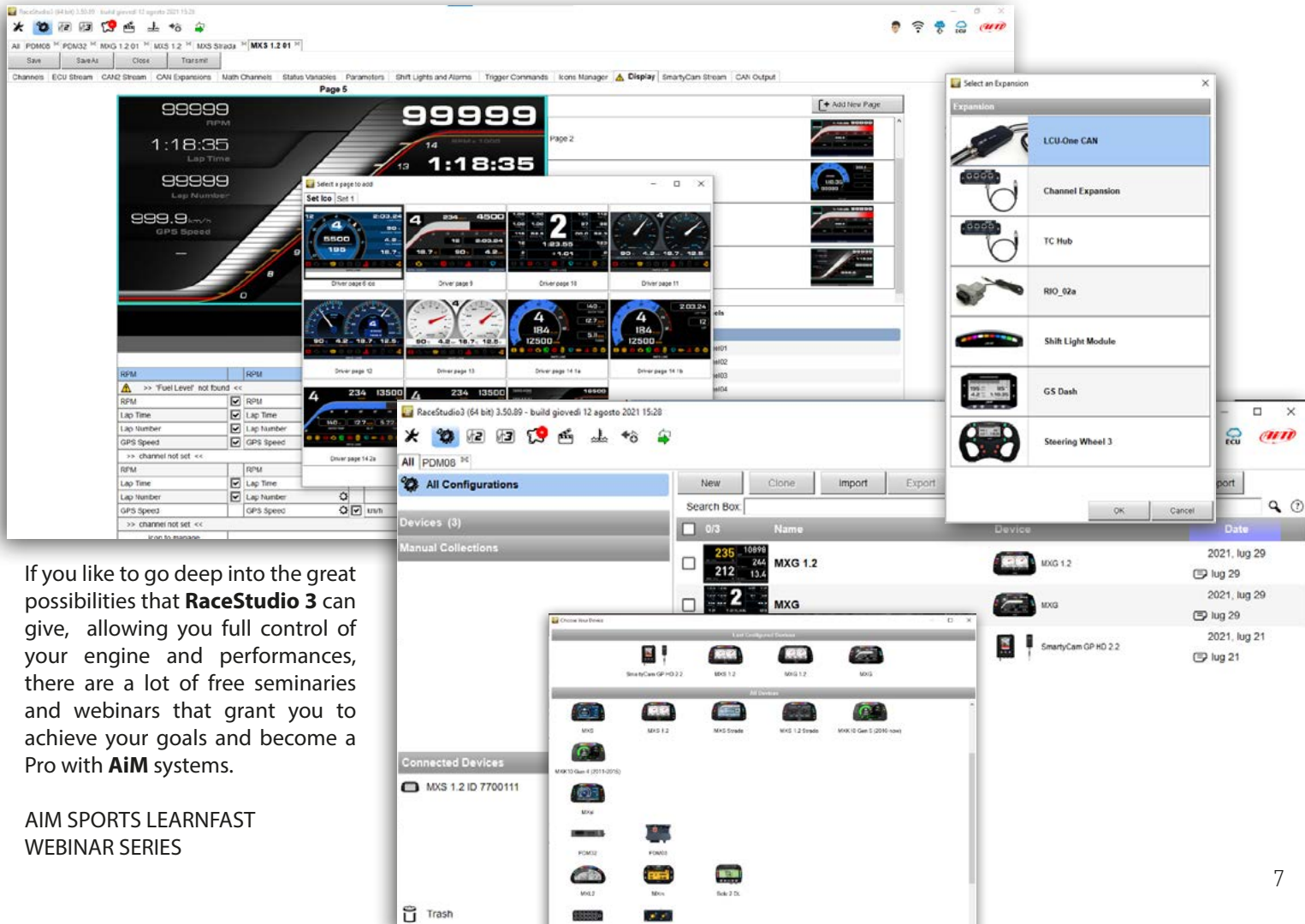
Thanks to this powerful software you can create, modify, delete, import and export configurations with all channels, ECU drivers, math channels, display pages, digital outputs, alarms, shift lights and all the expansions you need.

You will also be able to manage the maps of all your racing tracks and compare two laps watching the video recorded by SmartyCam 3 cameras.

You may choose among a wide range of styles and every field may show the channel you wish; you can setup each detail and manage what to show, with just some simple steps.

RS3
RACESTUDIO





If you like to go deep into the great possibilities that **RaceStudio 3** can give, allowing you full control of your engine and performances, there are a lot of free seminars and webinars that grant you to achieve your goals and become a Pro with **AiM** systems.

AIM SPORTS LEARNFAST
WEBINAR SERIES

Analysis 3

Your performances at your fingertips

Analysis 3 enables you to analyze all data recorded by **AiM** devices and downloaded to your PC: graphs, histograms and tables will help you studying your performance, providing an objective support to avoid mistakes and improve performances.

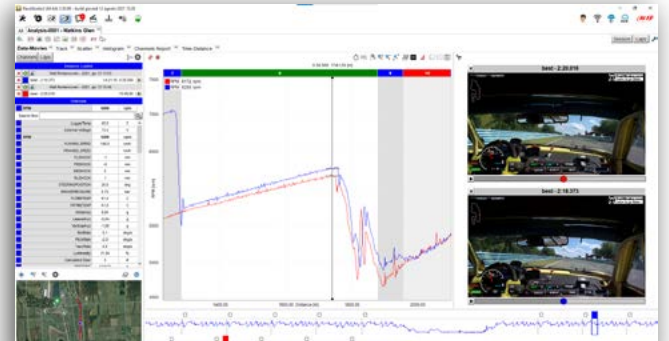
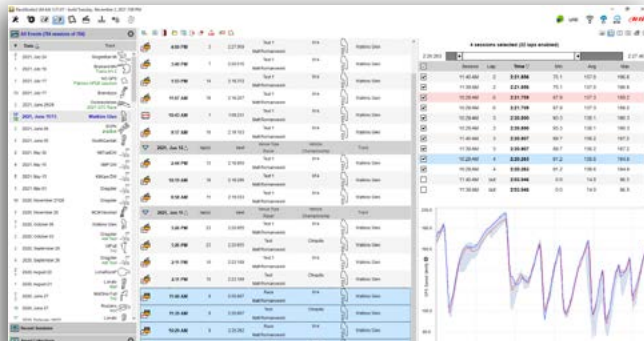


Preview and Comparison

An easy and quick outlook on your sessions before opening them. Select one session to get a preview, more sessions for a better comparison.

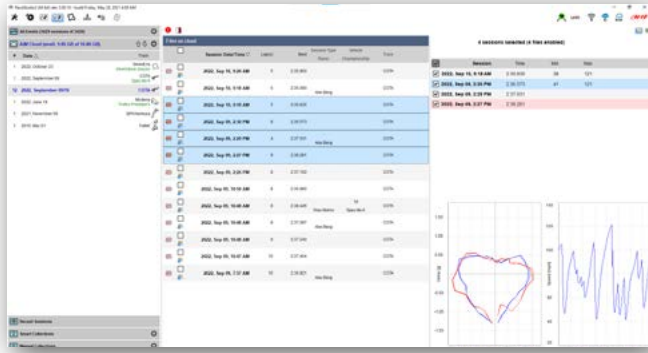
Smart Sync

Import your data and videos (from any AiM SmartyCam) and Analysis 3 automatically synchronize them.



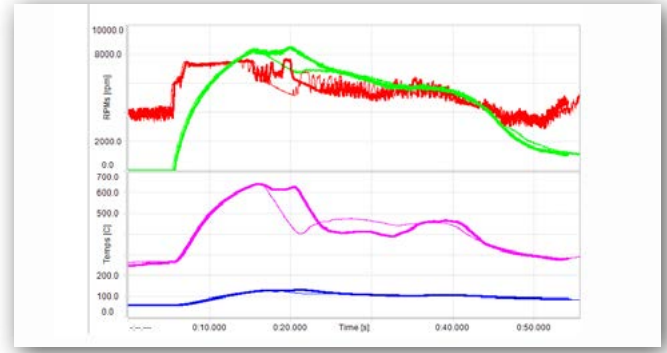
AiM CLOUD service

Now all your data and videos are available any time on all your PCs and you may share them with your friends, mates, coaches: just synchronize your AIM CLOUD and it is done! Easy and Safe. No more import/export and old pen drives.



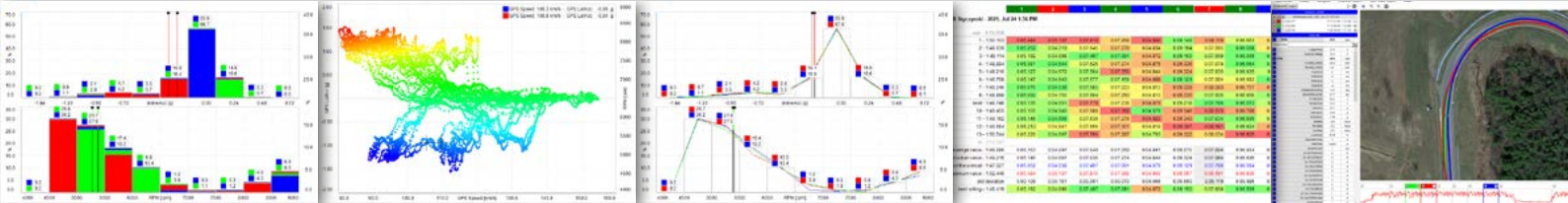
Dedicated views for Track races, Dragster, Oval

Analyze your test using the more efficient set of views and information you need to find out how to improve your performance.



Lots of views

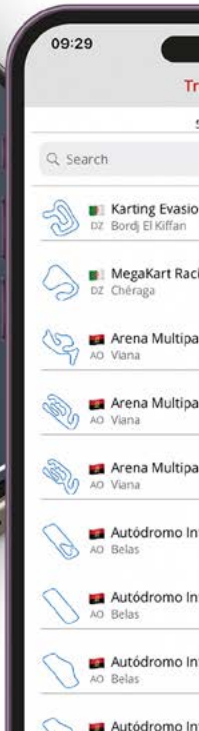
A very wide range of plot/charting possibilities may help you in a deep evaluation of your vehicle or your driving style.



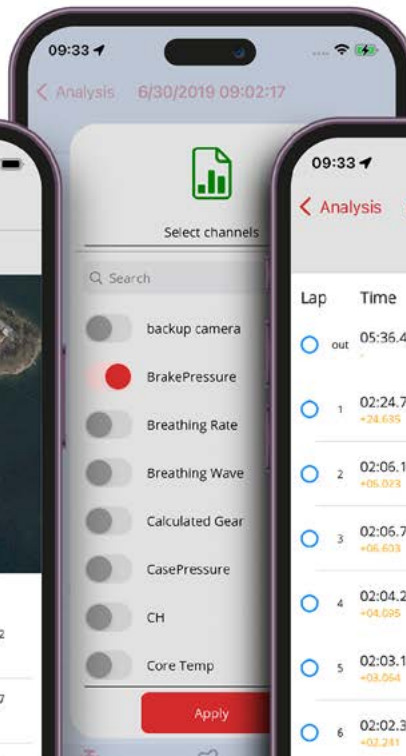
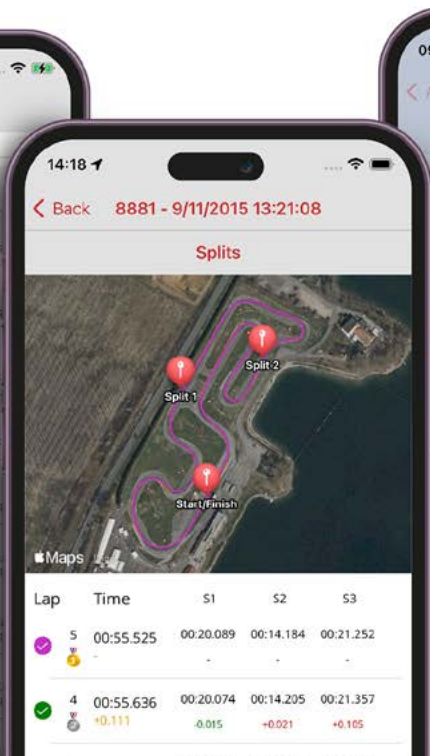
RaceStudio 3 always with you

Now **RaceStudio 3** is also available on your smartphone for managing the following features:

- **Data Analysis**
- **Online Data visualization**
- **Sensors calibration**
- **Tracks management**
- **Firmware update**
- **Data download and Cloud storage**

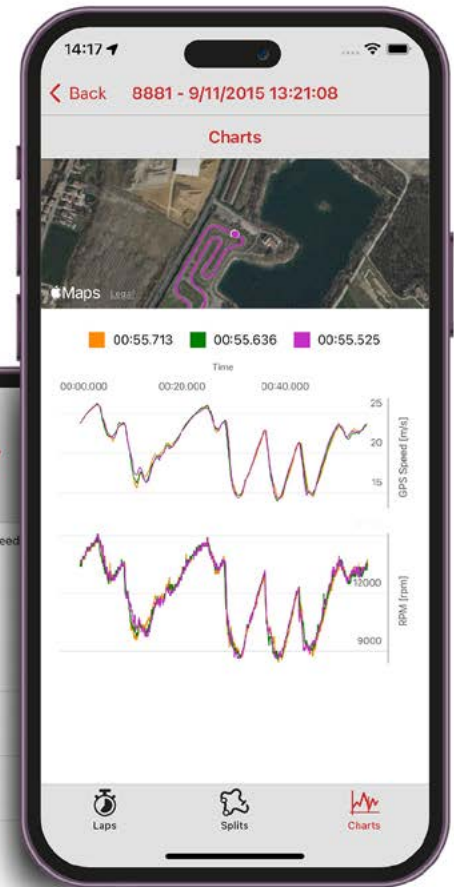


The brand new cross platform (Apple iOS® and Google Android®) application is designed to have the main features of **RaceStudio 3** at your fingertips, allowing you, through the Wi-Fi connection, to manage your **AiM** devices, monitor all the channels you want and analyze the values logged during track sessions through detailed maps and graphs.



Smartphone screen showing a laps analysis table. The table lists lap times, brake pressure, and GPS speed for six laps.

| Lap | Time | Brake...essure | GPS Speed |
|-----|-----------|----------------|-----------|
| out | 05:36.457 | 51.3 | 35.3 |
| 1 | 02:24.755 | 31.2 | 41.1 |
| 2 | 02:06.143 | 37.4 | 47.6 |
| 3 | 02:06.723 | 29.4 | 48.1 |
| 4 | 02:04.215 | 42.6 | 48.7 |
| 5 | 02:03.184 | 37.6 | 48.3 |
| 6 | 02:02.361 | 36.6 | 48.7 |



Thirty years of MyChron



MY-CHRON
1994



MY-CHRON 2
1997



MYCHRON3
2002

MY30th
anniversary



MYCHRON4
2006



MYCHRON5
2015



MYCHRON6
2024

MYCHRON6



We are proud to introduce the new **MyChron6**.

Here the improvements in comparison to the previous MyChron5:

- Wider display with 16 levels of gray
- Second CAN, user configurable
- USB-C connector for mass storage, battery charger or PC communication
- Wi-Fi or USB connection to the PC
- 6 axis IMU also for measuring the steering wheel position
- 20 hours non-stop working battery



In the back of your **MyChron6**, the access to the USB slot is fast and safe.

Also your heart rate can be recorded among your data, **MC6** is compatible with all the heart rate monitors on the market.





24
LAP

2:53:36

12500 RPM

570 °C
EGT

50 °C
WAT

MYCHRON6

| | MYCHRON6 | MYCHRON6 2T |
|---|---|-------------|
| Display | LCD 16-level gray scale | |
| Resolution | 320x136 pixels | |
| Backlight | 8 configurable RGB colors | |
| Shift lights/alarm LEDs | 5 + 2 configurable RGB LEDs | |
| Integrated track database | Yes | |
| Wi-Fi & Bluetooth connection | Yes | |
| GPS | 25 Hz | |
| External power | 9÷15 V | |
| Aux CAN connection | Yes | |
| USB connection | For data download, mass storage support and battery charge | |
| Temperature inputs | 1 | 2 |
| Inertial Platform | 6 axis, 100 Hz frequency | |
| Digital inputs | Optical lap signal - Magnetic lap signal | |
| Digital outputs | 1, programmable high/low activation | |
| External modules | MyChron Expansion - IR Temperature Controller - SmartyCam 3 Series - Lambda (LCU-One and LCU1S) | |
| Memory | 4 GB | |
| Internal battery type | Rechargeable Lithium | |
| Body | PA6 GS30% | |
| Dimensions | 150.0 x 79.0 x 36.6 mm | |
| Weight | 370 g | |
| Waterproof | IP67 | |

MXT 1.3

MXT1.3 Strada

The widest Dash Logger & Dash of the MX series

MXT line is the new “big brother” of **MX** family with a 10” wide high contrast TFT display.

The MX range has been developed with the same core, connectors and features but available in different sizes: 5” for **MXS** line, 6” for **MXP**, 7” for **MXG** and 10” for **MXT** line to cover the needs of the most demanding customers.

- 10” high contrast TFT display
- User configurable multi page display
- RGB alarm LEDs and icons
- 10 RGB LEDs shift lights array
- 3 CAN connections
- CAN, RS232 or K-Line ECU connections





Everything in its place

Thanks to our **RaceStudio 3** free software it is possible to set up the **MXT 1.3/MXT 1.3 Strada** display layouts to offer a functional view of all the data, bargraphs and alarms programmed as preferences.

AiM designed some dedicated display layouts to fit the optional **Rear Camera**.

Moreover, through **RaceStudio 3 Analysis tool**, all data recorded by **MXT 1.3** can be analysed after each track session.



ECU
Connection



GPS
Module



Expansion



Analog/Digital
inputs



Accelerometer



Math channels



Second
CAN



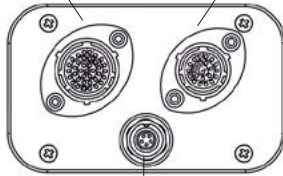
Digital
Outputs

Connections

MXT 1.3

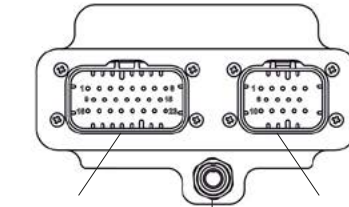
37 Pins Autosport male connector

22 Pins Autosport male connector



5 Pins Binder 712 female connector

MXT 1.3 Strada



23 Pins AMPSEAL male connector

14 Pins AMPSEAL male connector

5 Pins Binder 712 female connector



| | MXT 1.3 | MXT 1.3 Strada |
|--|--|---|
| Display resolution | | 1280x480 |
| Ambient light sensor | | ✓ |
| Alarm display icons | | Freely configurable |
| Shift lights | | 10 RGB LEDs |
| Alarms | | 6 RGB LEDs |
| CAN connections | | 3 |
| ECU connections | | CAN, RS232 or K-Line |
| Inertial platform | 100 Hz 6 axis | - |
| Analog/Digital Inputs | 8 configurable, digital-analog (0-5 V, 0-12 V) max 500 Hz each | |
| Digital inputs | 4 speed inputs, coil RPM input | 1 speed input, coil RPM input |
| Digital outputs | 2 (max 1 A each) | 1 (max 1 A) |
| GPS module | ✓ | Optional |
| Internal memory | 4 GB | - |
| Integrated data logger | ✓ | - |
| Wi-Fi connection | ✓ | - |
| Analog camera input | | ✓ |
| Body | Anodized aluminum | |
| Connectors | 37 pins Autosport + 22 pins Autosport + 5 pins Binder 712 | 23 pins AMPSEAL + 14 pins AMPSEAL + 5 pins Binder 712 |
| Power consumption | | 400 mA |
| Waterproof | | IP67 |
| Expansions | | Optional |
| RaceStudio 3 (Configuration & Analysis software) | Constantly updated and freely downloadable | |

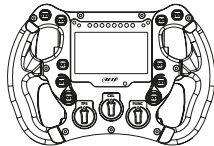


The Steering Wheel with integrated datalogger

SW4 is one of the most versatile steering wheels on the market thanks to its compatibility with a long list of ECU protocols and features all the functionalities of a data logger.

Pushbuttons, display pages and rotary switches are only some of the configurable items.

- 4 GB datalogger
- Easy connection to more than 2,000 ECUs
- 8 configurable pushbuttons - CAN output
- 2 free contacts pushbuttons
- 3 configurable rotary switches - CAN output
- 2 Shift paddles - CAN output and free contacts
- Configurable display pages
- Shift lights
- Multiple Expansions



Ø 270 - 280



CONFIGURABLE LEDS
PUSHBUTTONS



Improvements

- Optimised structure makes it more robust and lighter.
- Redesigned pushbuttons with back-lit frame for higher visibility of the active LED status.
- New clutch and gear shift mechanism with carbon fiber paddles (optionals) for greatest accuracy.
- Protective cover constructed in carbon fiber and forged composite material.

AMBIENT LIGHT SENSOR

ROTARY SWITCHES

CARBON FIBER PADDLES SHIFT



SW4



SW4

| | |
|-----------------------------|---|
| Diameter | Ø 270 - Ø 280 mm |
| Display | 4.3" TFT |
| Resolution | 800x480 pixels |
| Contrast | 800:1 |
| Brightness | 800 cd/m2 - 1,100 Lumen |
| Ambient light sensor | Yes |
| Alarm display icons | Yes, configurable |
| Shift Lights | 8 configurable RGB LEDs |
| Alarm LEDs | 4 configurable RGB LEDs |
| CAN connections | 3 |
| ECU connection | CAN |
| ECU compatibility | 2,000+ industry leading ECUs |
| CAN expansion | GPS Module, SmartyCam 3 series, ACC2, LCU1S, Channel Expansion, TC Hub, GS-Dash |
| Internal memory | 4 GB |
| Body | Anodized Aluminum + Carbon fiber forged composite |
| Pushbuttons | 10 pushbuttons + 3 rotary switches with RGB backlights |
| Connectors | 1 Autosport 22 pins male connector |
| Dimensions | 270 x 183.5 x 42.6 mm |
| Weight | 1,900 g |
| Power consumption | 500 mA |
| Waterproof | IP67 |

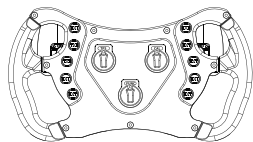
GT32

The Electronic Steering Wheel

GT32 steering wheel transmits in a freely configurable CAN connection the status of the eight pushbuttons (while 2 of them feature free contacts connections), 3 rotary switches and paddles.

Completely configurable pushbuttons:

- Momentary
- Toggle
- Multistatus



Ø 320

ROTARY SWITCHES



CARBON FIBER PADDLES

CONFIGURABLE LEDs
PUSH BUTTONS



Custom backlighting

RGB LEDs can be managed through math channels according to the status of the pushbuttons and/or the feedback coming from external devices. They can be solid or blinking at 2 frequencies and at the preferred light level. Finally, paddle shifts feature free contacts on a dedicated pin of the Autosport connector too.

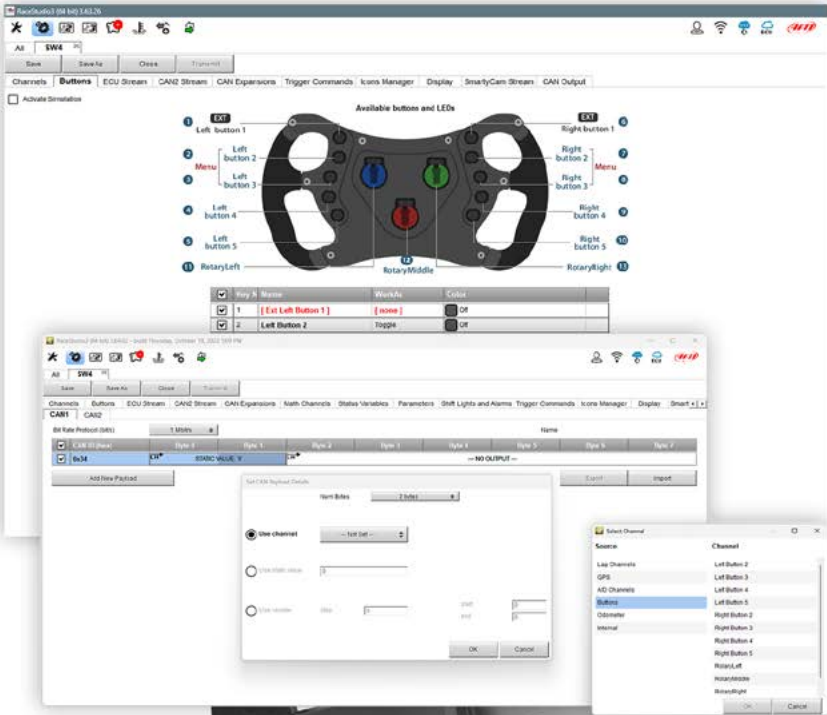
Available as an AiM expansion or as a completely standalone device.



Pushbuttons configuration

The RGB LEDs behind all 10 pushbuttons plus back-lit multi-position switches are designed to instantly find the right input in the heat of competition.

Every single LED can be fully programmed through **RaceStudio 3**; they can work as momentary, toggle or multistatus and each option can be configured depending on the length of time the button is pressed or on other conditions according to specific needs.



AUTOSPORT 22 PINS MALE CONNECTOR

GT32

| | |
|--------------------------|---------------------------------------|
| Diameter | Ø 320 mm |
| CAN connections | 1 |
| Body | Anodized Aluminum |
| Pushbuttons | 10 pushbuttons with RGB backlights |
| Rotary switches | 3 rotary switches with RGB backlights |
| Connectors | 1 Autosport 22 pins male connector |
| Dimensions | 320 x 176 x 43 mm |
| Weight | 2,600 g |
| Power consumption | 500 mA |
| Waterproof | IP67 |



XLog

The compact datalogger by AiM

XLog is an extremely powerful and compact datalogger.

It records data coming from:

- ECU stream: CAN K-Line or RS232
- GPS: four constellations (GPS, GLONASS, BeiDou and Galileo), 25 Hz, with less than half a meter precision
- Internal 6 axis Inertial platform
- Expansions:
 - **ACC2**: Analog inputs
 - **LCU1S**: Lambda controller
 - **SmartyCam 3 series**: Motorsport cameras

Then, it features:

- Integrated Wi-Fi and Bluetooth
- Long lasting Lithium Battery and connection for an external 8-16V battery
- 4 GB internal memory
- Removable USB-C key
- Waterproof (IP67)



| | XLOG |
|----------------------------------|---|
| Integrated track database | ✓ |
| Inertial platform | 100 Hz 6 axis |
| GPS | 25 Hz |
| Wi-Fi connection | ✓ |
| Bluetooth connection | ✓ |
| ECU connection | CAN, RS232 or K-Line to 1,000 + industry leading ECUs |
| RPM input | 1 |
| Pushbutton | 1 |
| Status LED | 1 |
| External power | 9÷15 V |
| Connectors | 5 pins Binder 712 7 pins Binder 712 USB Type-C |
| Memory | 4 GB internal + removable USB Type-C key |
| Battery | Rechargeable lithium |
| Material | PA6 + 30% glass fiber reinforced |
| Dimensions | 74.8 x 6.4 x 31.1 mm |
| Weight | 60 g |
| Waterproof | IP67 |

ECULog

The smallest datalogger by AiM

ECULog is the smallest datalogger to record data from your ECU.

Its dimensions are 61 x 44 x 27 mm only.

It records data coming from:

- ECU stream CAN: K-Line or RS232 connections
- Expansions:
 - **ACC2**: Analog inputs
 - **LCU1S**: Lambda controller
 - **SmartyCam 3 series**: Motorsport cameras

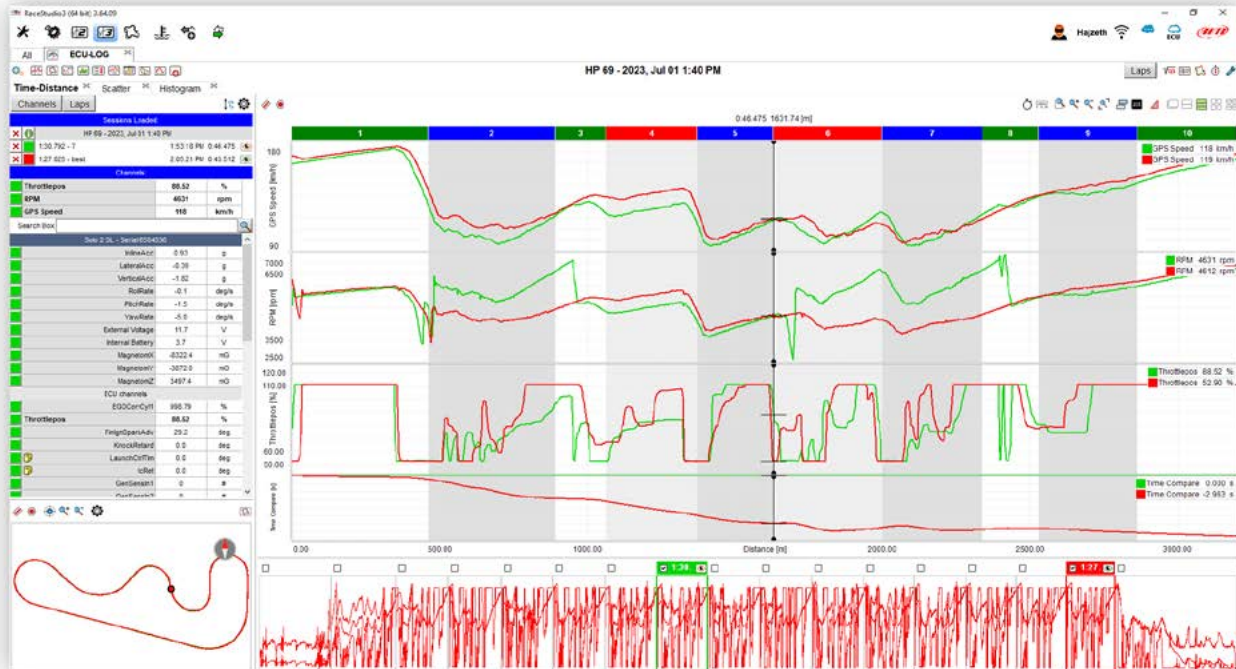
Then, it features:

- ECU connection
- 4 GB internal memory
- Removable USB-C key
- Waterproof (IP67)



Compact, powerful, reliable

The reduced size of the **ECUlog** makes it ideal for motorcycle and any underseat compartment installation. The analysis of the performance is a key factor, all recorded data can be managed in **RaceStudio 3 Analysis** with histograms, scatters, diagrams, maps and even videos recorded with a **SmartyCam** are automatically synchronized to the laps data for a better comparison.



A flexible system

Thanks to **RaceStudio 3** software will be fast and easy to create a complete system with the new **ECULog** designed by **AiM**. A lot of adds-on are available to cover most requirements.



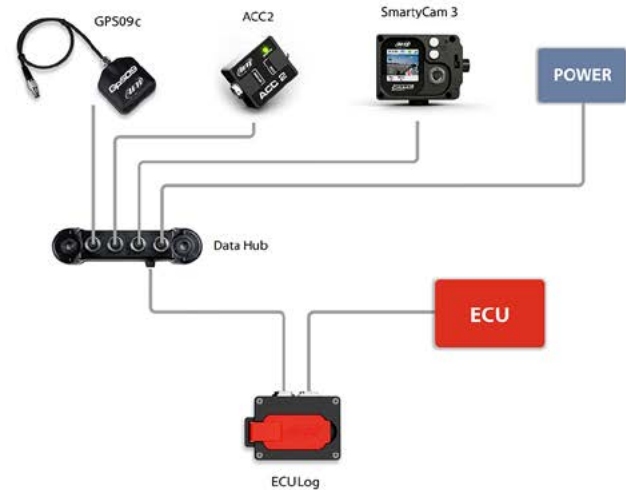
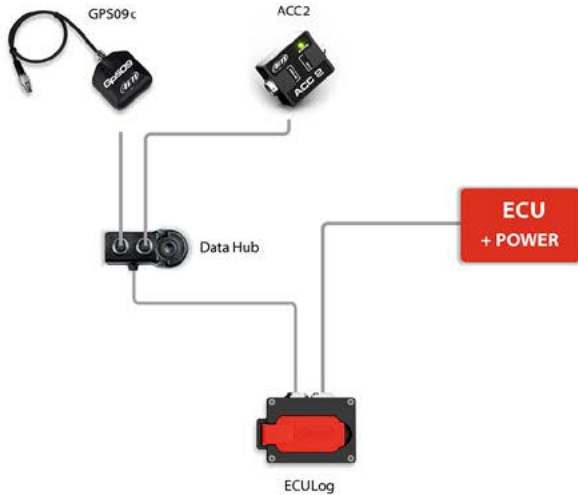
GPS09c
The coveted GPS
by **AiM**

SmartyCam 3 series
Cameras with realtime
data overlaid
on videos

ACC2
Compact
CAN converter

LCU15
Reliable
Lambda Controller

Connection examples



| | ECULOG |
|-----------------------|---|
| ECU connection | CAN, RS232 or K-Line to 1,000 + industry leading ECUs |
| External power | 9÷15 V |
| Connectors | 5 pins Binder 712 7 pins Binder 712 USB-C |
| Memory | 4 GB internal + removable USB-C key |
| Material | PA6 + 30% glass fiber reinforced |
| Dimensions | 61.4 x 44.7 x 27.2 mm |
| Weight | 60 g |
| Waterproof | IP67 |



CANKey

The small CAN logger

Easy to install, it records your data through CAN connection and save them into a small USB-C memory module.

- ECU connection
- 4 GB internal memory
- Removable USB-C key
- Waterproof (IP67)



Compact and built to resist

The reduced size of the **CANKey** makes it ideal for any cockpit or vehicle.

Its rugged aluminum body with fast open system are designed to protect your data and to withstand in the extreme environment of the Motorsports.





| | CANKEY |
|-----------------------|---|
| ECU connection | 1 |
| External power | 9÷15 V |
| Connectors | 5 pins Binder 712 USB-C |
| Memory | 4 GB internal + removable USB-C memory module |
| Material | Anodized Aluminum |
| Dimensions | 55.90 x 22.70 x R 13.5 mm |
| Weight | 50 g |
| Waterproof | IP67 |

SMARTY CAM3



The cameras designed for motorsport,
with real time data overlays and data recording



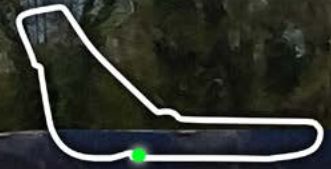
12:33 04/10/2021

0.4
1.3



23 LAP 00:29:43 LAP TIME

01:42:06 BEST TIME



12.34 LT
FUEL LEVEL

92 °C
OIL TEMP.



**SMARTY
CAM3**



Real-time configurable overlays on video



SmartyCam 3 cameras have been designed for Motorsport with a single purpose:

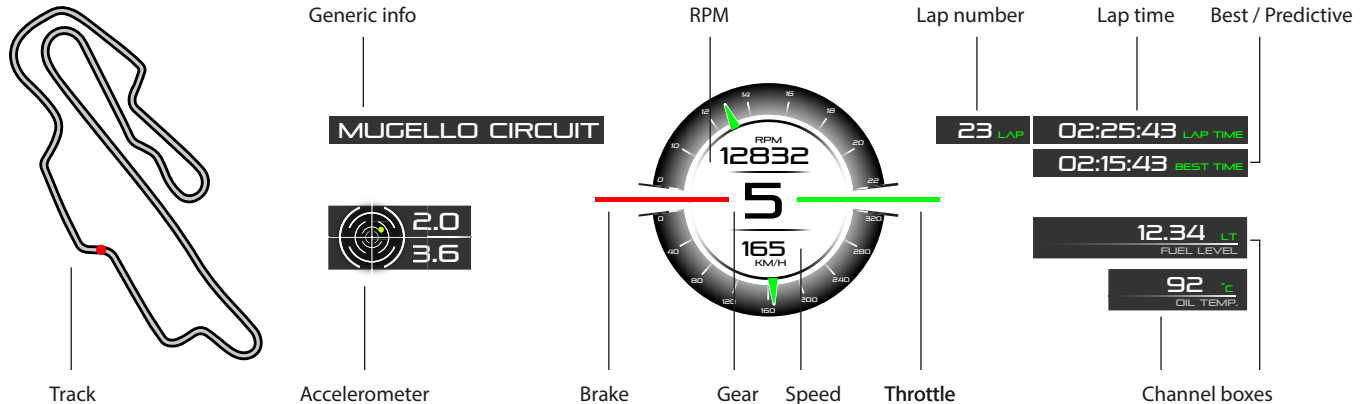
PROVIDING HIGH-QUALITY VIDEOS INCLUDING ALL THE DATA FOR PERFORMANCE ENHANCEMENT.

Configurable overlays

Choose which information to overlay with different styles and graphics elements. Not enough? In addition, you can freely move every element in the screen, no condition at all, it's all up to you.

Access to all the data from different sources

- **From GPS:** track map and vehicle position, as well as speed, lap and split times.
- **From AiM loggers connected to your ECU:** RPM, throttle, engaged gear, acceleration, pressures, temperatures and additional sensors.



SMARTY CAM3



Automatic Start & Stop

No need to think about the camera while you are ready at the starting line.

SmartyCam 3 cameras switch on/off and starts recording when the master does or based on RPM or speed condition previously set.



Designed for the extreme

SmartyCam 3 cameras are made in machinery molded aluminum, PA glass reinforced fiber, shapphire glass and are IP65 waterproof and, tested to face strong and prolonged vibrations, continuous rain, dust and extreme temperatures.



Smart Sync

In case MP4 data are not enough for your analysis, simply import video file and data from your **AiM Logger** and the software will automatically synchronize them: position on the track, video frame and data on the graph will be perfectly correlated.



ECU Connection

Feature a second CAN protocol that allows the user to set the ECU Stream of a wide number of supported ECUs.





No “Jello Effect” with Global Shutter CMOS

Engine rumble causes vibrations, which are a big problem for video recording. You will never experience again that bothersome “jello effect” you get watching videos recorded by a camera with rolling shutter when the vehicle is running. SmartyCam 3 cameras have been designed for that environment and for those vibrations.

“Jello effect” will be just a distant memory.



Video Output

SmartyCam 3 Dual and GP features a video output with SDI interface.

It allows to send the video/audio stream to a streamer at 30 or 60 fps to perform a live streaming.



High quality with small size video files

Generic HD cameras are focused on the highest pixels number. The result is that their video files are far too large, taking too much memory. SmartyCam 3 videos have the same quality as other FHD cameras but their files are smaller because the H.264 compression system parameters have been optimized to perfectly balance video quality and file size.



Full internal datalogger

All data received are recorded in .mp4 files, your SD Card contains all the information you need for a deep data analysis. With the SD card you can also send the configuration, update and tracks to the camera. (SD card sold separately)

SMARTY CAM3 SPORT

- Global shutter CMOS sensor
- 1920x1080 Full HD 30 fps H.264
- Support for up to 2 TB Micro SD card
- Display resolution: 128x128 pixels
- 67° / 84° angle lens
- Internal, rechargeable lithium battery 350 mAh
- 9-15 Volt External Power
- -10°C/+50°C temperatures working range
- Auto Power ON/OFF
- Auto Start/Stop recording
- CAN connection to all AiM Systems





A motorsport camera in a pocket

Pick up your SmartyCam 3 and put it wherever you want: its compact design is perfectly shaped to take up as little space as possible into your racing cockpit.



SMARTY CAM3 CORSA

- Global shutter CMOS sensor
- 1920x1080 Full HD 60 fps H.264
- Display resolution: 128x128 pixels
- 67° / 84° angle lens
- Internal, rechargeable lithium battery 350mAh
- 9-15 Volt External Power
- Support for up to 2 TB SD card
- -10°C/+50°C temperatures working range
- Auto Power ON/OFF
- Auto Start/Stop recording
- USB-C connection
- Internal and external Mic
- CAN ECU



The Benchmark of Motorsport Action Camera

SmartyCam 3 CORSA is the new version of SmartyCam HD, one of the most appreciated and well known racing product in the motorsport world.

All the great features that racers all around the world love about SmartyCam HD are way better in **SmartyCam 3**. The Global Shutter is now even **more performing**, the quality of video is Full HD and up to 60 fps, the exclusive overlaid data are more accurate than ever.

With the new **Smart Sync** feature **RS3 Analysis 3**, detects and aligns data from the file you've downloaded from any AiM device in just a click.

Simple, powerful, better than ever.



SMARTY CAM3 GP



- Global shutter CMOS sensor
- 1920x1080 Full HD 60 fps H.264
- Display resolution: 240x320 pixels
- 67° / 84° / 120° angle lens
- Internal, rechargeable lithium battery 1,250 mAh
- 9-15 Volt External Power
- Support for up to 2 TB SD card
- 2 Binder 712 female connectors + 2 SMA + 1 USB-C
- -10°C/+50°C temperatures working range
- Auto Power ON/OFF
- Auto Start/Stop recording
- 1 Video Output



HQ videos from another perspective

SmartyCam 3 GP is for who needs external video and has very little space for installation. The AiM Bullet Cam features an internal battery of 1,250 mAh.

SmartyCam 3 GP is designed to be installed out of the vehicle, it is perfectly comfortable from -10° to $+50^{\circ}$ Celsius and the bullet is rated IP65 waterproof, to resist the most extreme and severe condition of racing.

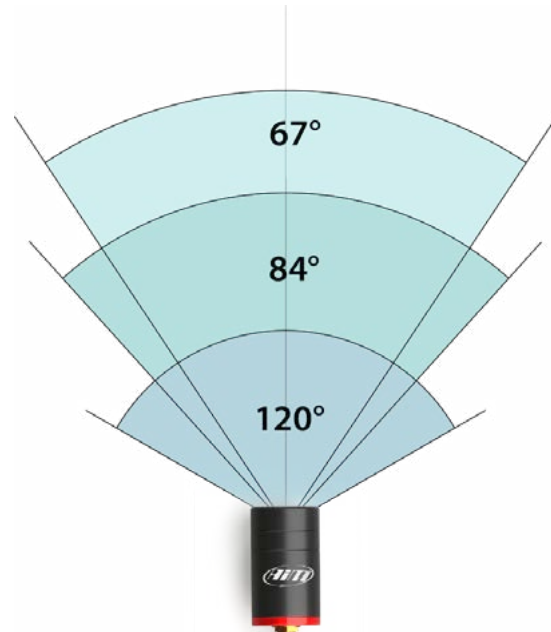
Featuring 2 Binder 712 female connectors plus 2 SMA female connectors, the SmartyCam 3 GP has now a 3G-SDI Output for stream.

Camera with Bullet Lens

SmartyCam 3 GP is designed to be installed in open roof vehicles, where it is important that the CMOS is enclosed in a small, waterproof body, to resist the most extreme and severe condition of racing.

The bullet comes with 67° - 84° - 120° angle lens.

The 67° FOV lens is usually adopted in closed roof cars, thus avoiding an excessive view of the cockpit in the video, while the 84° and 120° lenses are used in open-wheel cars and prototype offering a wide open view of the track.



SMARTY CAM3 DUAL

- Global shutter CMOS sensor
- 1920x1080 Full HD 60 fps H.264
- Display resolution: 240x320 pixels
- 67° / 84° /120° angle lens
- Internal, rechargeable lithium battery
4800mAh
- 9-15 Volt External Power
- Support for up to 2 TB SD card
- -10°C/+50°C temperatures working range
- Auto Power ON/OFF
- Auto Start/Stop recording
- 1 Video Output
- 2 Video Inputs
- Autosport connector
- Ethernet 1 Gigabit
- USB-C
- CAN ECU connection
- Expansion CAN connection



If One is great, Dual is Better

SC3 DUAL is the flagship version of SmartyCam 3 range, designed for any racer who wants to get the most out of his performance video on the track.

SmartyCam 3 DUAL features two 60 fps video inputs, 3G-SDI video output for streaming, USB-C and Ethernet data transfer, ECU connection.

Those are only few of the features of this exclusive version of **SmartyCam 3**.
The most powerful of our range.



SMARTY CAM3 RANGE



Technical specifications

| | SPORT | CORSA | GP | DUAL |
|----------------------------------|---|--------------------------------|---|---|
| Video format | H.264 1920 x1080 px @ 30 fps | | H.264 1920 x1080 px @ 60 fps | |
| Display Resolution | 128 x128 pixels | | 240 x 320 pixels | |
| Field of view | 67° / 84° | | 67° / 84° / 120° | |
| Internal battery | Rechargeable lithium battery | | | |
| External power | 9-15 Volt | | | |
| Supported SD card | Up to 2 TB (Micro SD) | | Up to 2 TB (SD) | |
| Internal SSD memory | - | | Up to 64 GB (optional) | |
| Accelerometer | Three-axial ± 16G | | | |
| Connectors | 1 Binder 712 female | 3 Binder 712 female 1 USB-C | 2 Binder 712 female conn. 2 SMA female conn. 1 USB-C | 1 Autosport connector 2 SMA bullet connection 1 SMA 3G-SDI Video out USB-C |
| Temp. working range | -10°C/+50°C | | | |
| Auto Power ON | Yes | | | |
| Auto Power OFF | Yes | | | |
| Auto Start/Stop Recording | Yes | | | |
| Video Out | - | | 3G-SDI | |
| Bullet cable length | - | | 2.0 m | |
| Body | PA6 + 30% Glass reinforced Anodized Aluminum | Anodized Aluminum | | |
| Dimensions | 79.9 x 54 x 46.5 mm | 102.2 x 63 x 46.5 mm | Main unit 120.8 x 80.2 x 30.9 mm Bullet camera 24 diam x 48.2 mm | Main unit 154.4 x 109.6 x 42 mm Bullet camera 24 diam x 48.2 mm |
| Weight | 200 g, battery included | 280 g, battery included | Main unit 320 g Bullet 45 g | Main unit 800 g Bullet 45 g |
| Waterproof | IP65 | | | |

PDM32

PDM08

- Integrated Power Distribution Module
+ 4 gigabytes datalogger
+ Dash controller
- 5", 6" or 10" Display
- GPS09 Module for automatic Lap Time and track position
- 3 CAN connectors

PDM32

- 28 High Side Outputs
- 4 half Bridge Outputs

PDM08

- 8 High Side Outputs





Much more than a Power Distribution Module

PDM32 and **PDM08** Power Distribution Modules are designed to distribute power to multiple circuits on your vehicle, easily replacing traditional fuse and relay system.

Our PDMs are housed in anodized billet aluminum case.

They are designed to handle the rigors of motorsport and include a complete professional data logger and internal dash controller.

Being the center of vehicle electronics, the harness and installation are simplified for offer more control.

5", 6" and 10" displays in are available for **AIM PDMs**, offering the perfect solution for a complete integrated system.

PDM08



PDM32



Technical specifications

| | PDM08 | PDM32 |
|----------------------------------|--|---|
| LEDs | 8 RGB LEDs + 1 PDM ON + 1 PDM STS (Status) | 32 RGB LEDs + 1 PDM ON + 1PDM STS (Status) |
| Inputs | 6 fully configurable, recorded at max 500 Hz each: analog (0-5V ; 0-12V)/digital inputs Pullup/Pulldown | 14 fully configurable, recorded at max 500 Hz each: 8 analog (0-5V ; 0-12V)/digital inputs 4 digital inputs 2 Pullup/Pulldown |
| Power outputs | 1 with serie diode rated up to 20 A 1 rated up to 25 A 6 rated up to 15 A Protected for: over voltage, under voltage, over current, over temperature All outputs have internal freewheeling diode Total max current: 100 A | 4 rated up to 20 A (high side) 12 rated up to 15 A (high side) 12 rated up to 10 A (high side) 4 rated up to 35 A (high side/half bridge/low side/configurable PWM at max 500 Hz) Protected for: over voltage, under voltage, short circuit, over current, over temperature Total max current: 120 A |
| Lin bus | | 1 |
| CAN connection | | 3 |
| Internal memory | | 4 GB |
| External modules | GT32, GPS09c, Channel Expansion, TC Hub, Lambda Controller, SmartyCam 3 Series, Memory Module, Keypad Series | |
| Ext. Analog Camera input | - | 2 |
| Connectors | 1 AMP connector + 1 Amphenol Surlok connector + 1 Rosenberger connectorCAN | 2 AMP connectors + 2 Binder connectors + 1 Amphenol Surlok connector + 1 Rosenberger connectorCAN |
| Remote display connection | | 1 AiM stream output |
| Body | Anodized Aluminum | |
| Dimensions | 161x100.6x50.6 mm | 223.0 x 94.6 x 49.5 mm |
| Weight | 370 g | 760 g |
| Waterproof | IP65 | |

EPM32 EPM08

The **EPM32/08** are two expansions dedicated to:

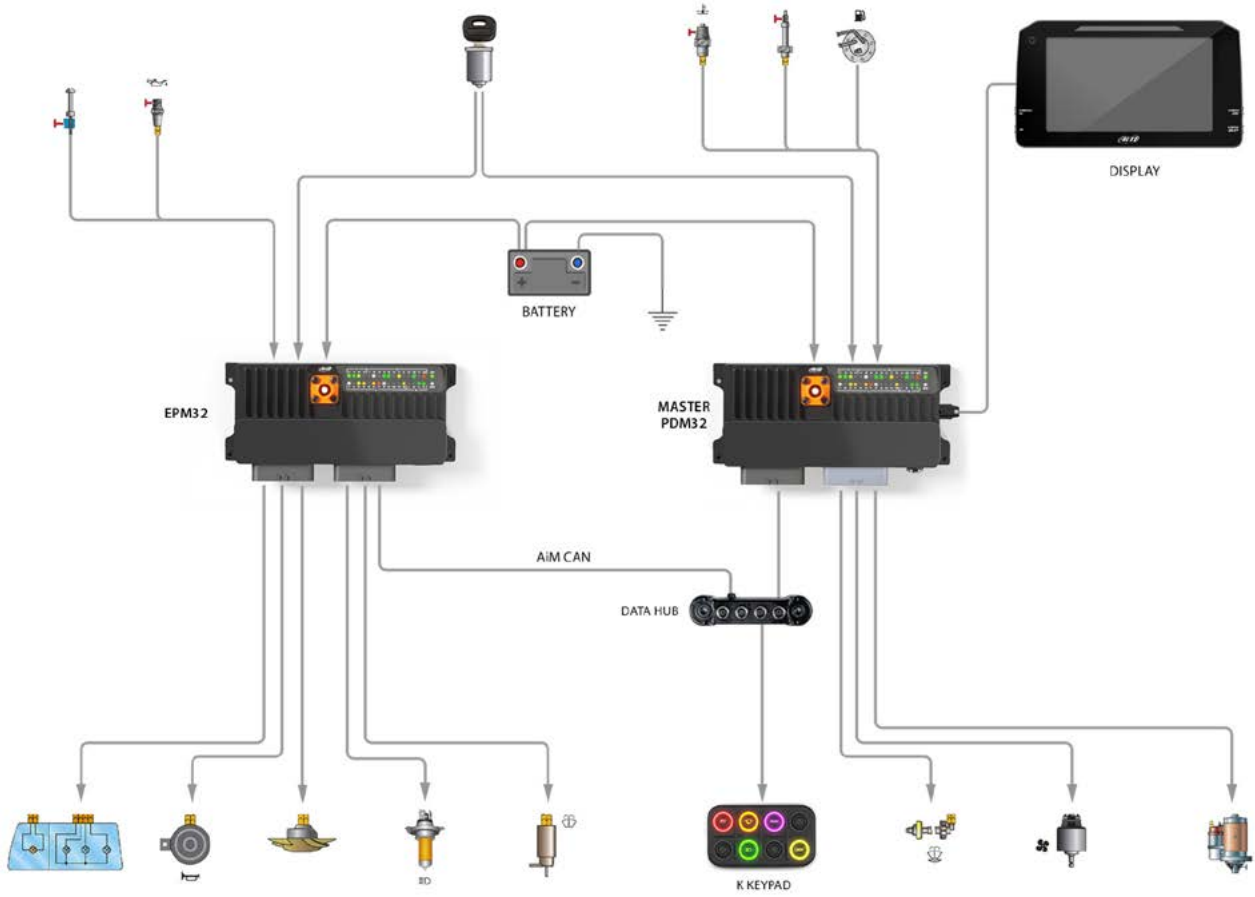
- **MXS 1.2-1.3**
- **MXP 1.2-1.3**
- **MXG 1.2-1.3**
- **MXT 1.3**
- **PDM08**
- **PDM32**

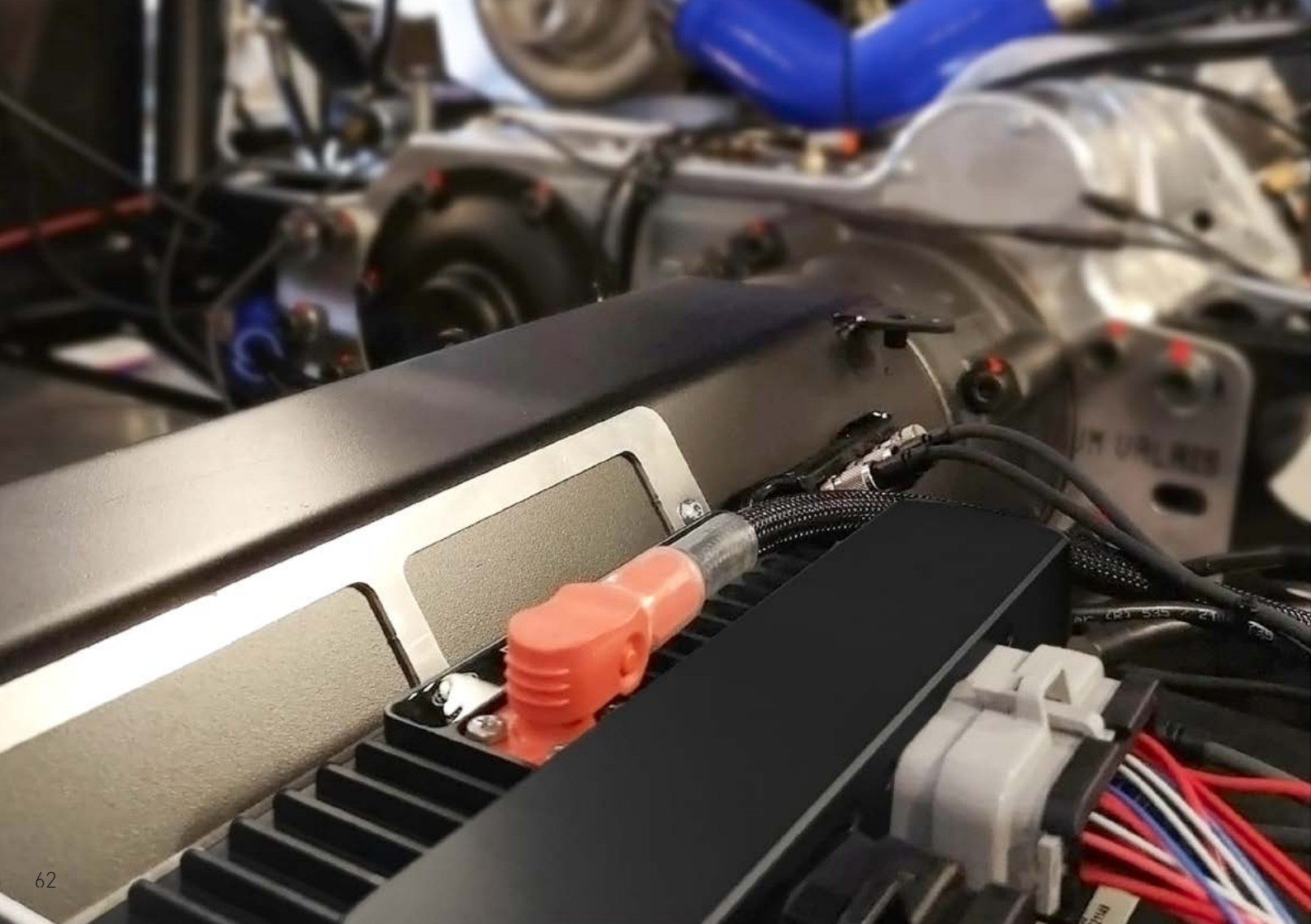
With **EPM32/08** your system will have completely configurable power outputs, digital and analog inputs.

- RGB LEDs
- Analog/digital inputs
- Power Outputs
- AMP and Amphenol Surlok connectors



Connection example





Technical specifications

| | EPM08 | EPM32 |
|----------------------|---|--|
| LEDs | 8 RGB LEDs + 1 EPM ON + 1 EPM STS (Status) | 32 RGB LEDs + 1 EPM ON + 1 EPM STS (Status) |
| Inputs | 6 fully configurable analog inputs (0-5V ; 0-12V) recorded at max 500 Hz each digital inputs pullup/pulldown | 12 inputs (8 configurable as analogic or digital, 4 digital only) Up to 8 analogic inputs recorded at maz 500 Hz each Up to 12 digital inputs pullup/pulldown |
| Power outputs | 1 with serie diode rated up to 20 A 1 rated up to 25 A 6 rated up to 15 A Protected for: over voltage, under voltage, over current, over temperature All outputs have internal freewheeling diode Total max current: 100 A | 4 rated up to 20 A (high side) 12 rated up to 15 A (high side) 12 rated up to 10 A (high side) 4 rated up to 35 A (high side/half bridge/low side/configurable PWM at max 500 Hz) Protected for: over voltage, under voltage, short circuit, over current, over temperature Total max current: 120 A |
| Connectors | 1 AMP connector + 1 Amphenol Surlok connector | 2 AMP connectors + 1 Amphenol Surlok connector |
| Body | Anodized Aluminum | |
| Dimensions | 161x100.6x50.6 mm | 234.4 x 95.1 x 49.0 mm |
| Weight | 370 g | 740 g |

GpS09c

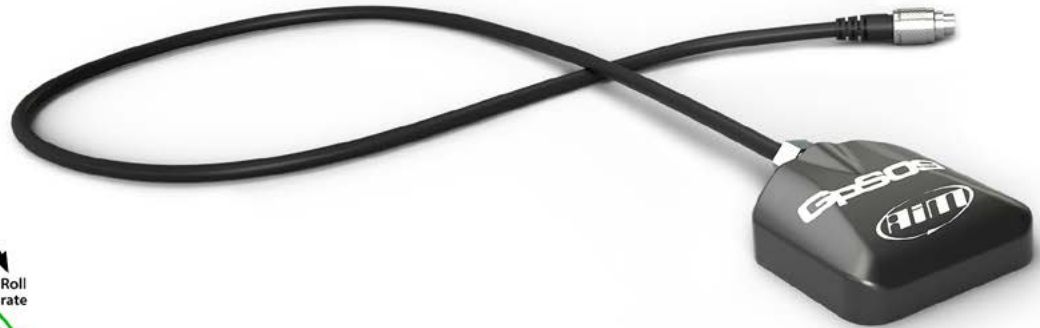
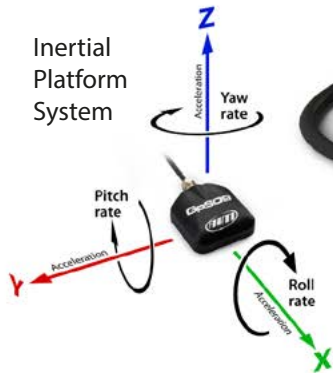
GPS09c has the following features:

- four constellations: GPS, GLONASS, Galileo, BeiDou
- 25 Hz
- 0.5 mt CEP accuracy
- 30 seconds cold start TTFF
- 1 second hot start
- Internal 22 mm antenna

GPS09c Pro adds an internal 100 Hz 6 axis IMU to the features proposed by **GPS09c**



Roof version

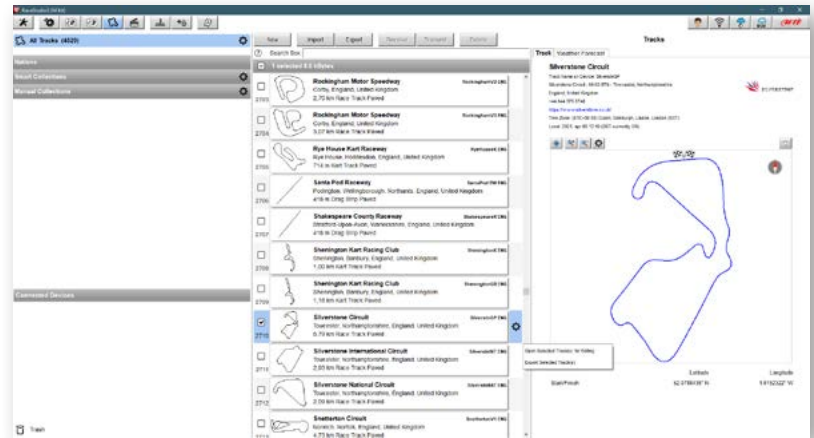


Standard version

Track database

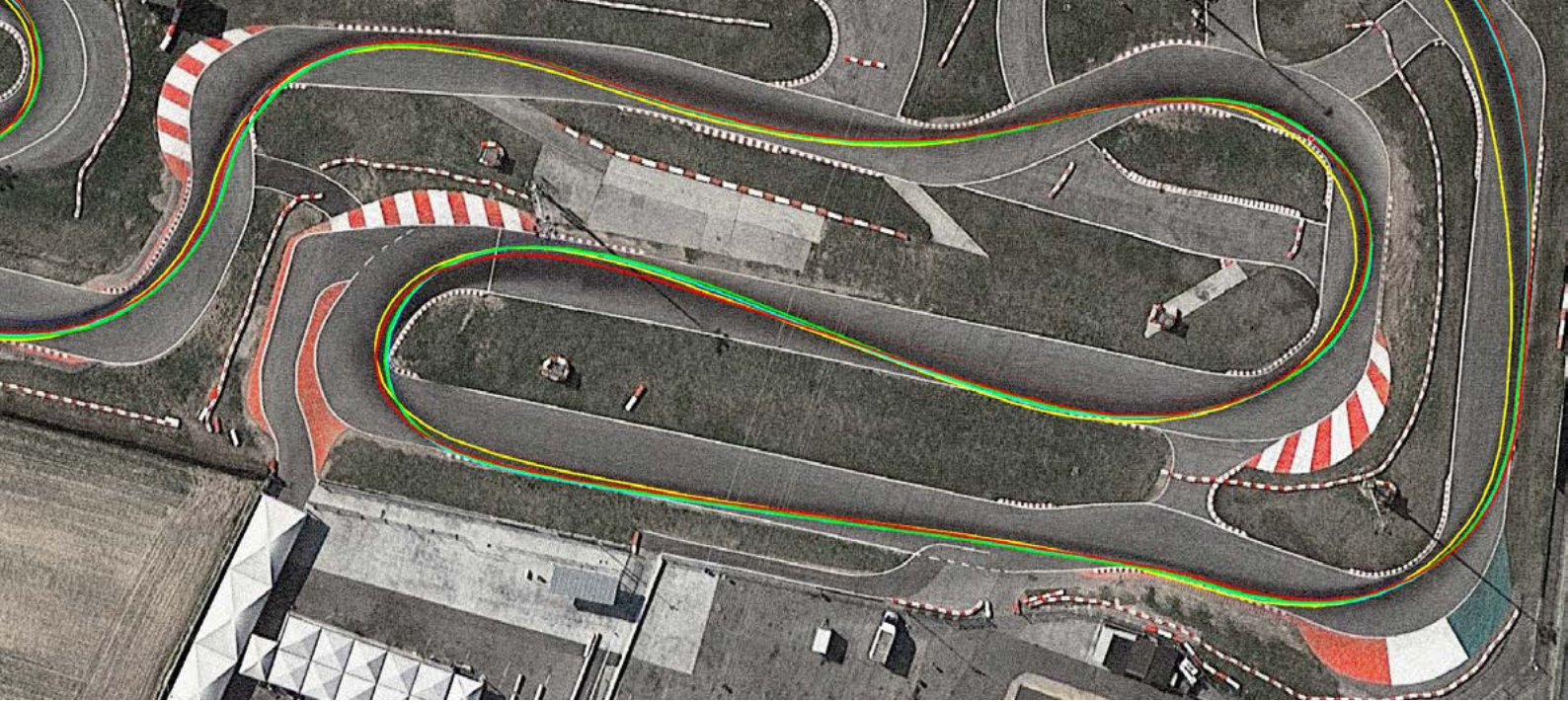
The **GPS09c** is the basis of lap time and split time calculations of all **AiM** systems. They come with start/finish line coordinates of more than four thousand tracks, so your dash or logger automatically recognizes the track you are racing on, and will calculate lap times and split times. What if the track is not in the database?

No problem, your system will recognize a new track and then will calculate lap times.



Both **GPS09c** and **GPS09c Pro** have been developed in two different mechanical versions: Standard and Roof.

Vehicle with carbon fiber roof or reduced glass surface may limit the GPS signal: the **Roof** version is specifically designed to avoid signal loss.



Open version

GPS09c is also available in "Open Version" for transmitting the data via CAN to every system: configuring the output is very flexible, by setting IDs, messages, baud rate and frequency. Of course, the "Open Version" can also be used as an AiM Expansion, without any issues or limitations.

Technical specifications

| | GPS09c | GPS09c Pro | GPS09c Open | GPS09c Pro Open |
|--------------------------|--|----------------|-------------|-----------------|
| GPS | 25 Hz | | | |
| Constellation | 4 (GPS, GLONASS, Galileo, BeiDou) | | | |
| Accuracy | 0.5 m CEP | | | |
| Cold start | 30 seconds TTFF | | | |
| Hot start | 1 second | | | |
| Antenna | Internal, 22 mm | | | |
| External power | 5÷15 V | | | |
| Connection | AiM CAN | | CAN, RS232 | |
| Inertial Platform | - | 6 axis, 100 Hz | - | 6 axis, 100 Hz |
| Dimensions | 53.2 x 53.8 x 19.7 mm (53.2 x 53.8 x 37.2 mm for Roof version) | | | |
| Weight | 60.5 g (100 g for Roof version) | | | |



ACC2

ACC2 is the new compact Analog CAN Converter.

It manages 4 analog inputs:

- Thermocouples
- Thermoresistances
- 0-5V
- 0-12V

to a max frequency
of 200 Hz each



Split harness

With **ACC2** customers can choose, according to their needs, among 5 different split harnesses. Up to 4 thermocouples or 4 analog channels 0-5V/0-12V are available.

SYSTEM CONNECTION EXAMPLE

SOLO2

Laptimer data logger



ECU
+ POWER

4 analog channel
split harness



ACC2

Analog CAN Converter

ECLIPSE

Linear potentiometers



Temperature
and pressure
sensors



Open version

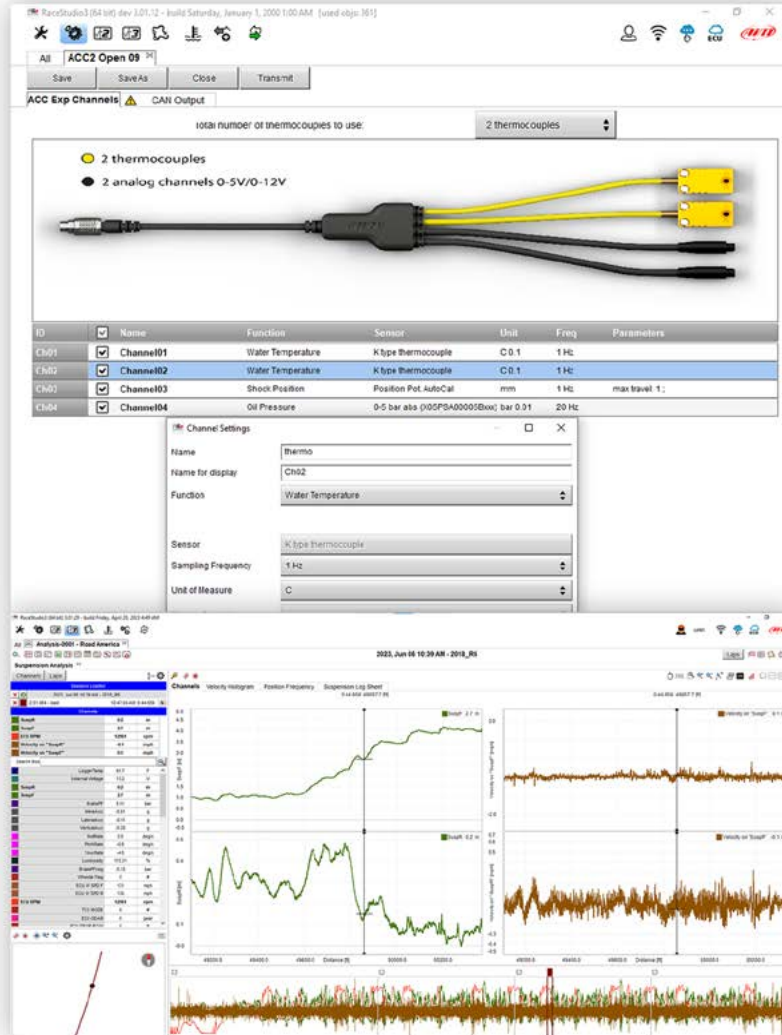
ACC2 is also available in “Open Version” for transmitting the data via CAN to every system: configuring the output is very flexible, by setting IDs, messages, baud rate and frequency.

Of course, the “Open Version” can also be used as an AiM Expansion, without any issues or limitations.

RS3 Suspension Analysis

ACC2 can be connected to **Eclipse sensors**.

All the acquired data **AiM** linear potentiometer can be managed through the new **Suspension Analysis Tool** in **RaceStudio 3**, for an even more complete performance analysis software.



| | ACC2 | ACC2 Open |
|------------------------|---|-----------|
| Analog channels | 4 fully configurable channels, 24 bit, A/D, 200 Hz each: TC (with dedicated cable), TR, 0÷5 V, 0÷12 V | |
| External power | 9÷15 V operational 12÷15 V fully operational | |
| Connection | AiM CAN | CAN, USB |
| Connectors | 5 pins Binder 712 female 7 pins Binder 712 female | |
| Materials | PA6 30% glass reinforced | |
| Dimensions | 44.0 x 38.0 x 19.8 mm | |
| Weight | 50 g | |



LCU1S

Total control of your engine

LCU1S controller allows to perfectly tune the carburetion of your engine to keeping it at its best and improve the engine's performances.

It uses a wide band Bosch LSU 4.9 sensor, used for its capacity of saving the original calibration for the duration of the sensor's life. In fact, Bosch LSU 4.9 probe has been designed to last for more than 100,000 km on a stock car.



Precision and reliability

LCU1S can detect accurate Lambda value from 0.65 to 1.6, offering you an extremely precise measurement, very useful for engine tuning.

Through the analysis of the remaining oxygen, **LCU1S** points out a possible oxygen excess/lack in the carburetion and provides essential information for 2 strokes and 4 strokes engines.

The configuration of Stoichiometric ratio allows **LCU1S** to be used on petrol, diesel and also alternative fuel powered engines.

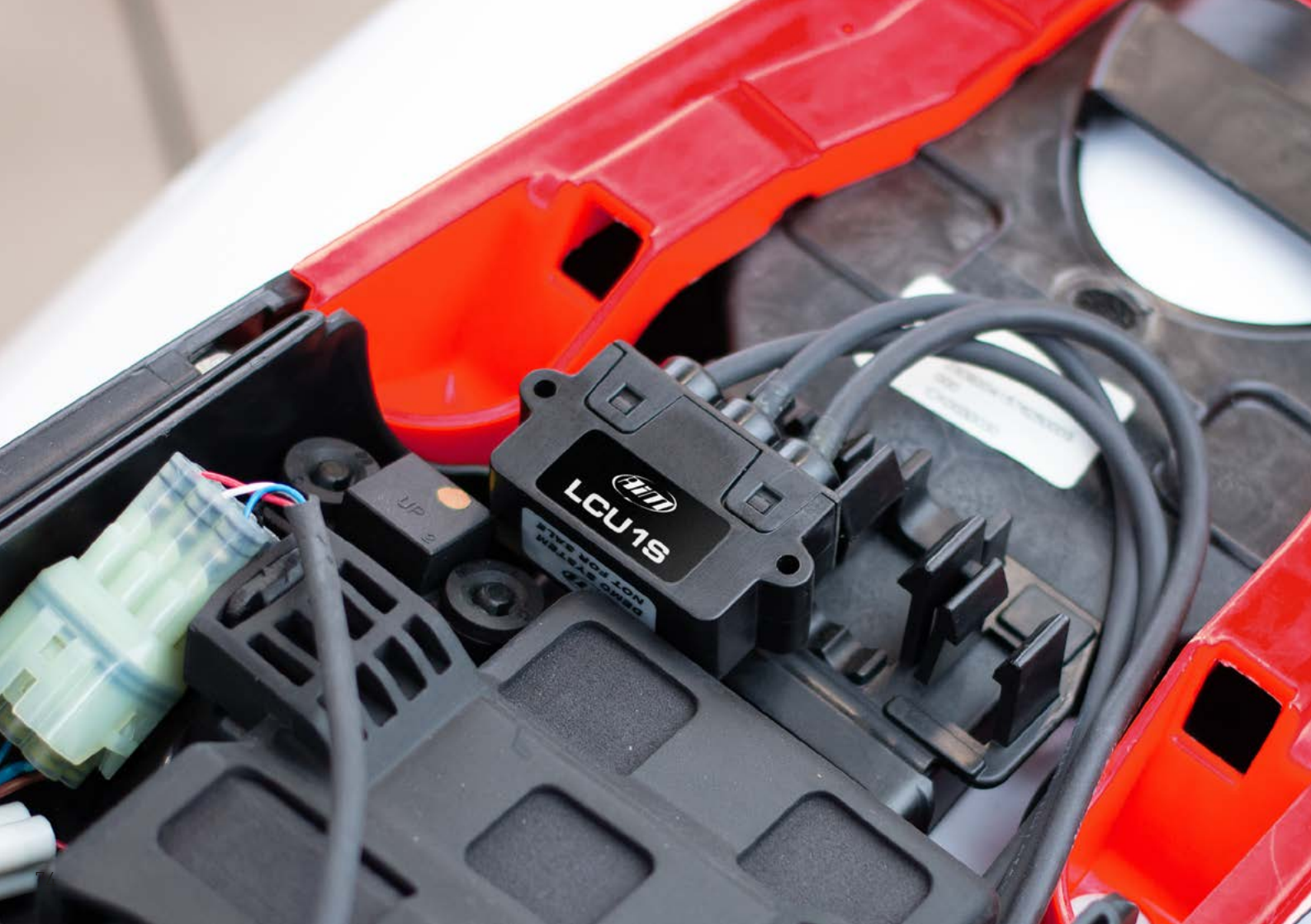




Open version

LCU1S is also available in “Open Version” for transmitting the data via CAN to every system: configuring the output is very flexible, by setting IDs, messages, baud rate and frequency.

Of course, the “Open Version” can also be used as an AiM Expansion, without any issues or limitations.



HIT
LCU1S

FIVE MOV LON
W/LEAK SHIELD

UP 2

| | LCU1S | LCU1S Open |
|-----------------------------|--|------------|
| Sensor compatibility | Bosch LSU 4.9 | |
| Power supply voltage | 9÷15 V | |
| Power supply current | 50 mA + sensor heater current typical 750 mA up to 2 A on cold sensor | |
| Materials | Latigloss 57 | |
| Dimensions | 43.4 x 30 x 18.4 mm | |
| Weight | 70 g | |
| Waterproof | IP67 | |



Keypad series

The CAN-Bus keypads

K6, K8 and **K15** are the AiM compact keypads based on CAN protocol. They are completely customizable and proposed with a wide range of interchangeable inserts. Configurable via USB fast and easy.

These rugged keypads are water and dust resistant and can be installed both inside and outside the cockpit.



COMPACT,
FULLY CUSTOMIZABLE,
WATER AND DUST PROOF.

- Off
- Red
- Green
- Amber
- Blue
- Magenta
- Cyan
- White



Customized experience

Each pushbutton can be configured in multi-status, momentary or toggle mode; these last two may also be time dependent.

Every pushbutton has an associated RGB LED, enlightened for night time use or even as feedback after having required an action: you may choose the colour depending on a single status and the logic for turning it ON.

In addition the RGB LEDs lights may be configured to be continuous, slow or fast blinking.

You can also configure every single LED to be turned ON in different colours following the conditions defined through the math channels.

All these features make the **Keypad series** devices customizable in every aspect.



The control panel features the following buttons:

- Purple button: Reverse
- Orange button: PAUSE
- Green button: STOP
- Cyan button: Forward
- Red button: N (Neutral)
- Yellow button: P (Park)

The control panel features the following controls:

- Map knob
- Clutch knob
- Clutch button

Open version

Keypad series is also available in “Open Version” for transmitting the data via CAN to every system: configuring the output is very flexible, by setting IDs, messages, baud rate and frequency. Of course, the “Open Version” can also be used as an AiM Expansion, without any issues or limitations.

Technical specifications

| | K KEYPADS | K OPEN KEYPADS |
|--------------------|---|---------------------------|
| Pushbuttons | 8 programmable keys (momentary, toggle, multistatus) | |
| Backlight | RGB with dimming option | |
| Connection | AiM CAN 5 pins Binder 712 | USB CAN 7 pins Binder 712 |
| Materials | Rubber silicon and PA6 GS30% reinforced | |
| Dimensions | 127.4 x 71.4 x 24 mm | |
| Weight | 150 g | |
| Waterproof | IP67 | |

OPEN

**AiM technology,
available for everyone.**



GpS09c OPEN



ACC2 OPEN

The **OPEN systems** are **AiM** proposal for having free configurable devices that can be connected, via CAN, to every dash, logger and external device.



LCU1S
OPEN

Keypad series OPEN

Configuration

Every **OPEN** device features a 7 pins connector to be connected to a PC via a dedicated USB cable.



OPEN 7 pins connector



Dedicated USB cable



RaceStudio 3 software

With **AiM** freely downloadable **RaceStudio 3** software devices and the CAN messages can be easily configured.

The screenshot shows the RaceStudio 3 software interface. The main window displays the 'CAN2 Keypad' configuration for a PKP-2400-SI (8 keys) device. The baud rate is set to 125 Kbit/sec, and the CAN Bus 120 Ohm Resistor is enabled. A table lists the keys and their configurations:

| Key # | Name | Work As | Color |
|-------|------|-----------|--------------------------|
| 1 | K01 | Momentary | <input type="checkbox"/> |
| 2 | K02 | Momentary | <input type="checkbox"/> |
| 3 | K03 | Momentary | <input type="checkbox"/> |
| 4 | K04 | Momentary | <input type="checkbox"/> |
| 5 | K05 | Momentary | <input type="checkbox"/> |
| 6 | K06 | Momentary | <input type="checkbox"/> |
| 7 | K07 | Momentary | <input type="checkbox"/> |
| 8 | K08 | Momentary | <input type="checkbox"/> |

The 'Key Status Settings' dialog is open, showing configuration for key K01. The 'Work As' mode is set to 'Multiposition'. The 'Use timing' checkbox is unchecked, and the time threshold is 0.5 sec. The dialog includes a table for key positions:

| Position | Label | Value | Short Press leads to | Long Press leads to | Buttons |
|----------|-------|-------|----------------------|---------------------|---------|
| 0 | OFF | 0 | ON | S2 | [+] [-] |
| 1 | ON | 1 | S2 | OFF | [+] [-] |
| 2 | S2 | 2 | OFF | ON | [+] [-] |



All **OPEN** devices are available both for:

- AIM CONNECTION**
- OPEN MODE CONNECTION**

Remove the USB cable and use the CAN cable for connecting the device to a CAN network.

ECLIPSE

ACCURATE

RESISTANT

LIGHTWEIGHT

- Accuracy $\pm 0.5\%$
- Output signal 500mV/0 - 4500mV/ full range
- Temperature working range from -30°C to $+100^{\circ}\text{C}$
- Repeatability ≤ 0.01 mm
- Operational speed ≤ 10 m/s
- Mechanical life >25 million cycles
- Waterproof IP65

Linear potentiometer series

Eclipse series, the new line of linear potentiometers, is born from the AiM experience acquired in the motorsport world to cover the needs of the racing industry.

Easy to install, our linear position sensors offer great performances in terms of accuracy, repeatability and life expectancy.

The continuous research to provide the best solutions for our demanding customers lead us to a new concept of sensors.

Advanced materials

Housing is in glass fiber, a material that features excellent resistance to mechanical stress and thermal changes, outstanding capacity as electric insulator, flame resistance and self-extinguishing, a perfect material for linear potentiometer purpose.

The shaft, normally made of steel, is now made in extruded carbon fiber. This combination guarantees lightness and resistance at one time.



Custom made range

Almost tailor made, ECLIPSE series is proposed in a wide travel range.

AiM Eclipse linear potentiometer end has M4x0.7 mm male thread on both ends.

Quick release balljoint or rod end bearing, free wires or AiM compatible connectors, all combination available for the best mounting on any vehicle.



| Potentiometer travel | |
|----------------------|--------|
| 50 mm | 175 mm |
| 75 mm | 200 mm |
| 100 mm | 225 mm |
| 125 mm | 250 mm |
| 150 mm | |

Inductive & Contactless

Thanks to the Inductive Contactless Technology, **AiM Eclipse** series assures unmatched wear resistance; no contact means minimum wear and tear therefore no performance degradation during his life cycle.





| ECLIPSE SENSORS | |
|----------------------------------|------------------------------------|
| Supply voltage | Vref 5 Vdc |
| Signal output | 500mV/ 0 - 4500mV/ full range |
| Repeatability | ≤ 0.01 mm |
| Operational speed | ≤ 10 m/s |
| Mechanical life | >25 million cycles |
| Independent linearity | ≤±0.5% |
| Temperature working range | -30°C to +100°C |
| Housing | Glass fiber |
| Shaft | Carbon fiber |
| Weight | 20÷40 g |
| Cable type | Raychem 55M 26 AWG Viton Sleeve |
| Cable length | 500 mm |
| Waterproof | IP65 |



Multi-Cylinder ECU

Experience the future of engine control with the new **Python** Multi-Cylinder ECU.

Its advanced technology enables unparalleled customization and flexibility, making it the perfect solution for both category-managed and unrestricted applications. Port Injection ECU delivers full control for most modern engines.



- Manages engines with up to 4 cylinders
- Drive up to 4 power coils directly
- Accelerate your tuning process with integrated wideband Lambda controller and barometric pressure sensor
- Unlock advanced tuning capabilities, including 9 analog inputs, 3 temperature inputs, 1 differential crank position sensor or 1 HALL crank position sensor inputs.
- Drive by wire
- Aluminum body

Rugged and reliable

Every device is completely manufactured, assembled and tested in-house to ensure high reliability of the product and meet the highest standards.

Designed to face the harshest environments, the components used allow continued operation in a very wide temperature range.



Unique maps and strategies

With **Spark** cutting-edge **AiM** software, tuners can unleash the full potential of the engine by developing unique maps and control strategies, every parameter can be managed with precision and control. Connect an **AiM** data logger or a dashboard via CAN bus to manage a complete system: the most important data will be immediately visible and recorded for in-depth analysis. Sophisticated **drive-by-wire** strategies provide a wide range of throttle control along with advanced plausibility (fault/error) checking for safety.

The screenshot displays the Spark software interface. On the left is a tree view of the engine configuration, including parameters like Fuel strategy, Ignition, and CAN configuration. The main window shows 'Map 1 - Ignition Main cyl 1 Table (*) - 25.0 Tps (%) @1500 rpm'. This is a 2D table with RPM on the vertical axis (500 to 6500) and Throttle Position (%) on the horizontal axis (0.0 to 100.0). A red arrow points to a value in the table at approximately 3000 RPM and 40% throttle. Below the table, a 'Sub table' dialog box is open, showing 'AiM/Set sample value on elements selected'. At the bottom, a live data table shows various engine parameters such as INJ1 TIME (3.663 ms), INJ1 PHASE (210.0°), INJ CRANK CORR (0.0%), INJ ECT (5.0%), INJ IAT (0.0%), INJ BARO CORR (0.0%), INJ ADV CYL 1 (6.0°), INJ ECT CORR (0.0%), INJ DWELL (3.500 ms), V IGN (12.165 V), ECT (27), IAT (56.4 °C), ENG POS (Phased), TPS (5.5%), ENG STATE (Running), PPS (2.6%), BARO (1004 mbar), and RPM (3863 rpm). Below the data table is a graph showing ECT (blue line) and RPM (red line) over time from 00:08:24 to 00:09:34.

AiM Spark screen for ignition time adjustments. Editing table with live view data and graphs.

| | PYTHON |
|--------------------------|--|
| Outputs | <ul style="list-style-type: none"> • 4 saturated injectors (12Ω) • 4 coil power driver (21A, 390V, 300 mJ) • MRD low side (main relay driver max 0.6A) • 1 high side 5A • 1 bipolar stepper motor driver 0.6A • 1 H-BRIDGE (DBW) 8.3A • 2 Vref (5V, 100 mA) • 7 low side (6 @ 4A, 1 @ 2.2A) |
| Inputs | <ul style="list-style-type: none"> • 1 differential crank position sensor (VRS) or 1 HALL crank position sensor • 3 digital frequency input (2 speed , 1 cam sync) VRS/HALL • 1 key input • 4 digital input, close to GND • 9 analog inputs (8 inputs 0-5V, 1 input 0-12V) • 3 temperature inputs 50 Ω-100K Ω |
| Interfaces | 2 CAN busses (1 for calibration, 1 for datalogger/dashboard) |
| Connector | APTIV/DELPHI 64 contacts |
| Material | Anodized Aluminium |
| Dimensions | 122.3x120x40.4 mm |
| Weight | 450 g |
| Waterproof | IP67 |
| Lambda | Internal wide band lambda controller |
| Sensor | Internal barometric sensor |
| Datalogger | Internal, for 30 min acquisition |
| Inertial Platform | Internal 6 DOF IMU (3 x accelerometers, 3x gyro) for pitch and roll |



**The new plug&play
dedicated ECU for 2023
Yamaha YZ450F MX bike**





The new plug&play
dedicated ECU for 2024

TWO-STROKES Bikes:

KTM SX 125/250/300 2024

Husqvarna TC 125/250 2024

GAS GAS MC 250 2024



AiM ECUs key features:

- **Fully plug & play**
- **More power at the wheel**
- **Up to five selectable maps**
- **Launch control**
- **Advanced strategies**
- **Advanced base maps**
- **Extra analog inputs**
- **Extra digital outputs**

High technology 32-bit core

This is the key to guarantee the efficiency and performance of the vehicle through: consistent engine rotation, increased power at the wheel, the possibility to repeat dozens of tests at the bench and perfect reactivity to map adjustments.



Spark live dash

Thanks to the new **CAN-WI-FI MODULE** it is possible to connect your ECUs (all models are compatible) to the **Spark live dash**, the app that allows you to change maps and other parameters, providing a clear dashboard with key data plus warnings and alarms for instant and complete engine control.

Available for Apple iOS® and Google Android® smartphones.



Alarms and setting pop-ups



HBS 2 - Handlebar Switch (second generation)

This switch is a worthwhile upgrade for riders who like tinkering and fine-tuning the engine performance.

Easy access to all 5 included maps, plus more.

For riders with modified engines - the on-the-fly fuel trim functionality allow to richen or lean out where and when needed.

With the new **HBS 2 AiM** optimized the pushbuttons for a quick and easy setup. This updated version features two extra pushbuttons and a more ergonomic shape.

Unlock the power

Base map makes the bike immediately more performing than the original map of the OEM control unit, but with **UC-Bridge** every rider has much more control on every aspect and tailor the engine power exactly to his needs, managing the following:

- **Advanced Strategies**
Strategies can be configured for second injectors, quick shift, launch control, traction control and all the important parameters for the rider.
- **Extra Analog Inputs**
2 analog inputs to manage external sensors to improve the bike performance, such as barometric air pressure.
- **Extra Digital Outputs**
2 additional outputs, one dedicated to a second injector and another free to add another additional device, like, for example, a water pump.



Additional characteristics to the stock ECU

| | TAIPAN Y V2 | TAIPAN K |
|--------------------|---|---|
| Additional Inputs | Two 0-5V analog inputs sampled @ 1,000 Hz each, could be alternatively used as switch to ground | Two 0-5V analog inputs sampled @ 1,000 Hz each, could be alternatively used as switch to ground |
| Additional Outputs | Second injector driver for high impedance saturated injectors (12Ω) One low side driver (1A) | One low side driver (1A) |
| CAN Connectors | 1 CAN bus for calibration purposes | 1 CAN bus for calibration purposes |
| Power consumption | 150 mA | 150 mA |
| Connectors | 1 JST 04T-JWPF-VSLE-S 1 JST 08R-JWPF-VSLE-D 1 39 pin male | 1 JST 04T-JWPF-VSLE-S 1 JST 08R-JWPF-VSLE-D 1 64 pins male |
| Body | PA6 + 30% glass fiber | PA6 + 30% glass fiber + EPDM cover |
| Dimensions | 64.5x59x29.5 mm | 118.5x111.5x40.8 mm |
| Weight | 150 g | 310 g |
| Waterproof | IP67 | IP67 |





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