

1 – What is Memory Module

Memory Module is the AiM mass data storage expansion for car/bike installations. It comes with a 4 Gb SD card and can support up to 128 Gb. It is connected to AiM loggers via a 40cm cable and communicates using AiM proprietary CAN bus.



2 – Connection

Memory Module can be connected to all new generation AiM loggers:


- MXL2, MXG, MXS, EVO5: connect it to cable labelled “Exp” of 37 pins connector harness
- EVO4S: connect it to “Exp” connector

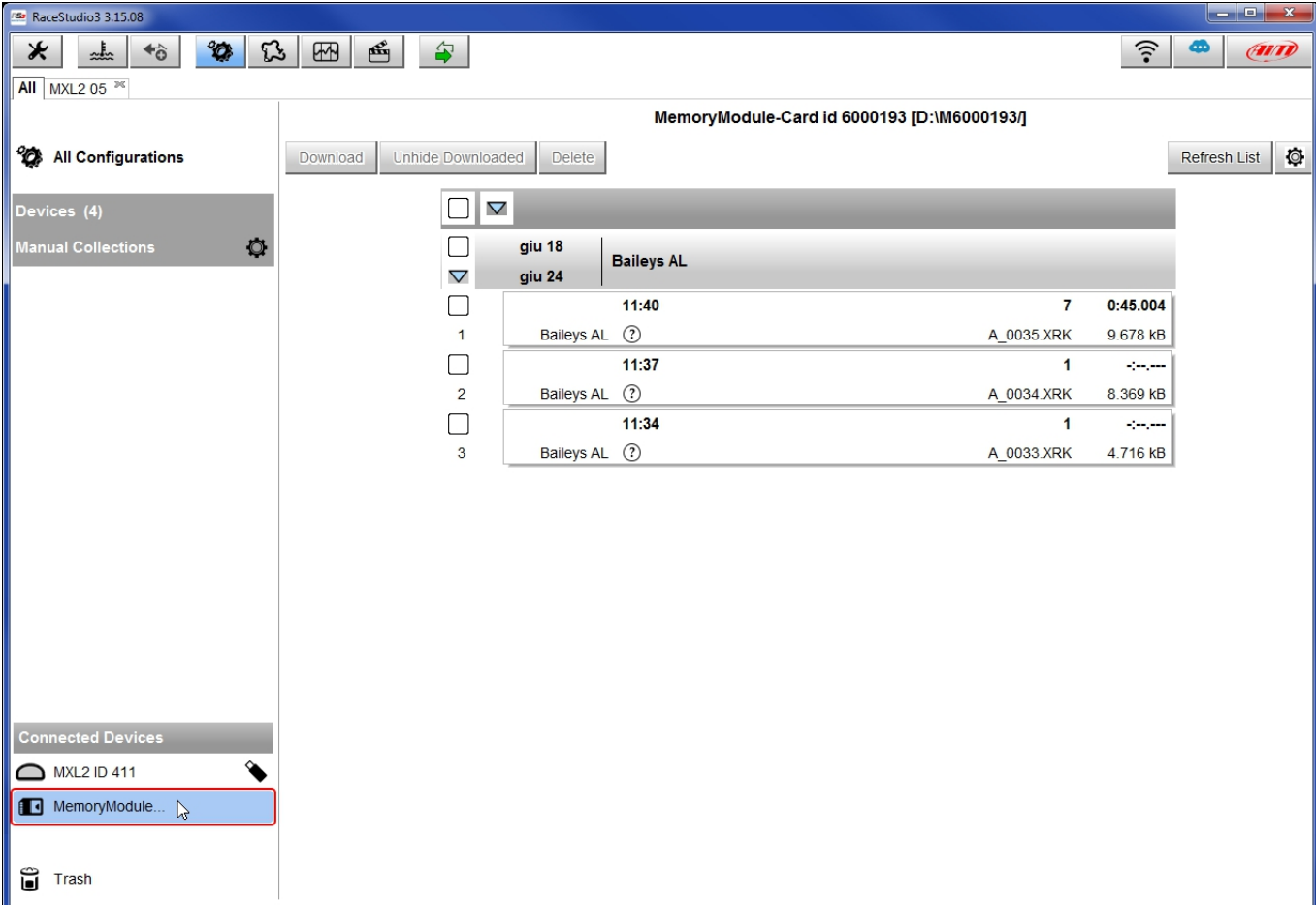
3 – How does Memory Module work

Memory Module stores data sampled by your AiM logger. No configuration is needed:

- just connect Memory Module to your AiM logger **before** it starts recording
- Memory Module and AiM logger store data simultaneously

When the session is over:

- get the SD card off the Module and place it in your PC SD slot
- run Race Studio 3 software
- click on the setting icon 
- click on Memory Module (bottom left of the software page)
- “Download” page shows up: perform data download as for any AiM device



The screenshot shows the RaceStudio3 3.15.08 software interface. The main window displays the configuration for a MemoryModule-Card with ID 6000193. The interface includes a sidebar with 'All Configurations', 'Devices (4)', and 'Manual Collections'. The 'Connected Devices' section at the bottom left shows 'MemoryModule...' selected. The main area displays a table of data points for 'Baileys AL' with columns for time, count, and file size.

	Time	Count	File Size
1	11:40	7	0:45.004
2	11:37	1	8.369 kB
3	11:34	1	4.716 kB

- click Analysis button to start analysing your data.

3.1 – Memory Module LED working mode

Memory Module features a front LED.

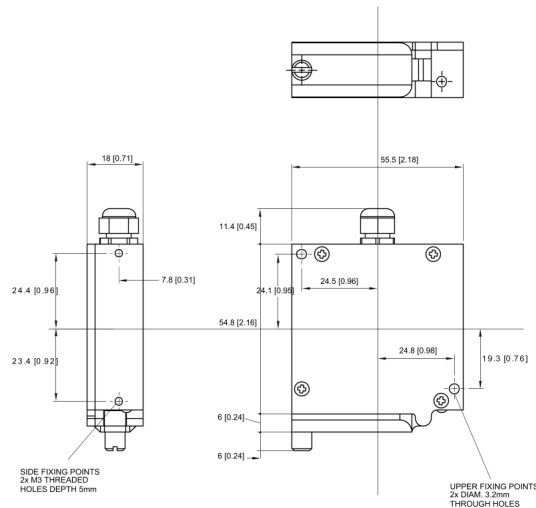


The table below shows its working mode:

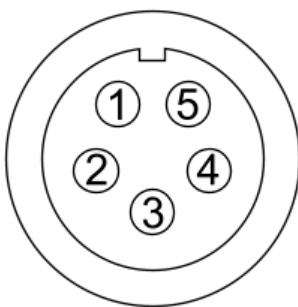
Led status	Meaning
Green Steady	Memory Module and Logger are recording
Green blinking 1 Hz	Memory Module connected to logger but not recording
Green blinking 3Hz	SD Missing
Red steady ->Red blinking 1Hz ->Green blinking 1Hz	FirmUp start ->writing -> done
Red steady ->Red blinking 1Hz	FirmUp Failed Solution: Disconnect Memory Module from the network, connect it directly to the logger, re-start FirmUp

4 – Dimensions, pinout and technical characteristics

The drawing here below shows the Memory Module dimensions in mm [inches].



Memory Module cable ends with a 5 pins Binder 712 male connector. Here below it is shown, front view, with its pinout.



Binder connector pin

- 1
- 2
- 3
- 4
- 5

Pin function

- CAN High
- GND
- +Vb
- CAN Low
- n.c.

Memory Module **technical characteristics** are:

- Max power consumption: 50 mA
- Cable length: 40cm
- Cable part number: **X08MMD040**
- SD Card: 4 Gb (in the kit). It supports up to 128 Gb.
- Dimensions: 55.5x78.3x18 mm
- Weight: 103g
- Waterproof: IP65