AiM User Manual

Memory Module

#### Release 1.02







#### User Guide

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# 1 – What is Memory Module

Memory Module is the AiM mass data storage expansion for car/bike installations. It is connected to AiM loggers via a 40cm cable and communicates using AiM proprietary CAN bus.



**Note**: the SD card is not included in the kit.



# 2 – AiM devices compatibility

The following table shows which AiM dashes/loggers are compatible with Memory Module and from which firmware version.

Device	Memory Module	Firmware Version
MXL2	Yes	From firmware version 1.26.08 onward
MXG	Yes	From firmware version 1.26.08 onward
MXS	Yes	From firmware version 1.26.08 onward
EVO4S	Yes	From firmware version 1.26.08 onward
EVO5	Yes	From firmware version 1.26.08 onward
MXS 1.2	Yes	From firmware version 2.26.48 onward
MXP	Yes	From firmware version 2.26.48 onward
MXG 1.2	Yes	From firmware version 2.26.48 onward
MXS 1.2 Strada	No	
MXP Strada	No	
MXG 1.2 Strada	No	
MXsl	No	
MXm	No	
Solo 2	No	
Solo 2 DL	No	

# 3 – Connection

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

- MX, MX 1.2 series and EVO5: connect it to cable labelled "Exp" of 37 pins Deutsch connector harness
- EVO4S: connect it to 5 pins Binder 712 female connector labelled "Exp"





#### 4 – 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

RaceStudio3 3.15.08			
* 🚣 🏫 🏠		((*•	
All MXL2 05 34			
	MemoryModule-Ca	rd id 6000193 [D:\M6000193/]	
2 All Configurations	Download Unhide Downloaded Delete		Refresh List 🔯
Devices (4)			
Manual Collections 🙃	aiu 18		
	giu 24 Baileys AL		
	11:40	7 0:45.004	1
	1 Baileys AL (?)	A_0035.XRK 9.678 kB	
	11:37	1 -:	
	2 Baileys AL ⑦	A_0034.XRK 8.369 kB	
	11:34	1 -:	
	3 Baileys AL (?)	A_0033.XRK 4.716 kB	1
Connected Devices			
MXL2 ID 411			
MemoryModule			
Trash			

• click Analysis button to start analysing your data.



#### 4.1 – Memory Module LED working mode

Memory Module features a front LED.



The table below shows its working mode:

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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



#### 5 – Supported SD card dimensions and format

The recommended SD memory sizes for use with AIM dashes is **4GB**. Other SD sizes should work, provided that the SD is formatted as **FAT32** (exFAT and NTFS do NOT work).

The operation of the memory modules is affected by the SD card speed for specific operations. We found that most **class 10 and above** SD cards with **sizes up to 32GB** work reliably.

According to our testing, most SD cards with higher sizes do not work. Furthermore, these SD cards are not shipped with FAT32 formatting by default, so they are not recognized by the memory modules.



# 6 – 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.



#### Memory Module technical characteristics are:

- Max power consumption: 50 mA
- Cable length: 40cm
- Cable part number: X08MMD040
- Dimensions: 55.5x78.3x18 mm
- Weight: 103g
- Waterproof: IP65