Data Key

User manual







Data Key: its functions



Data key is a storage device optional to AIM **MyChron4** and **GPS Module:** it is instead included in **eBox Gold** and **eBox Extreme** standard kits.

Data Key part number is: X50M4PC00.

Data Key has two functions:

- firmware update of MyChron4, eBox Gold/Extreme, GPS Module, LCU-One;
- data download from MyChron4.

When **Data Key** is connected to **MyChron4**, that can be connected to numerous peripherals like **eBox Gold/Extreme**, **GPS Module** or **LCU-One**, it first checks the firmware version installed on these logger and after it verifies if there are new data to download.

For firmware update and/or data download to be successful it is strongly recommended to always connect **Data Key** to **MyChron4** (and related network if available) off and after power it on.

Note: for Data key to correctly communicate with the PC it is necessary to install AIM USB Driver included in Race Studio 2 software install shield. Race Studio 2 software can be downloaded free of charge from Download Area, Software section of www.aim-sportline.com.

How Data Key updates the firmware

MyChron4, eBox Gold/Extreme, GPS Module and LCU-One, need periodical firmware update and to do this Data Key is necessary.

Note: MyChron4 peripherals can only be updated using Data Key connected to MyChron4; it is thereby necessary to leave all the network connected to update each single component.

Here follows updating procedure explanation.

Connect **Data key** to the PC on and visit <u>www.aim-sportline.com</u> download/firmware area.



Download the firmware and run it. This panel appears:

9	UPDATE for MYCH	IRON_4 SY	STEM Vers. 20	07.11.03		×			
	(III)				M				
		Vers. in	FIRMUP	Vers. in	DATAKEY				
	DATAKEY	33.30	2009/02/19	33.27	2008/04/07				
	MYCHRON4	31.58.07 34.26	2009/04/28	31.55.06 34.25	2008/04/24		1		
	EBOX	32.16	2009/06/08	32.14	2008/03/10				
	LAMBDA GPS	25.11 35.18	2008/01/09 2009/06/08	25.11 35.12	2008/01/09 2007/10/23				
	Please select one of the three MODES for DATAKEY:								
	Keyr 🖂 The DATAKEY updates the Firmware of MYCHRON4								
EBOX GPS LAMBDA only if the versions in FIRMUP are more recent.									
	The DATAKEY updates the Firmware of MYCHRON4								
Ч., М	EB0X G	PS LAMBD	A with the versio	ns in FIRMUP	always.				
- The D&T&KEY doesn't undate the Firmware of MYCHBONA									
EBOX LAMBDA GPS.									
						· ·			
	PROCE	ED	[EXIT	1			
]			1			

It is made up of two parts.

On top (1) it shows on the left firmware versions included in the downloaded file and on the right firmware versions installed on **Data Key**.

Bottom (2) it shows Data Key possible working modes.

Please pay particular attention to the selected option because of it is stored by the key and restored at each usage. It is strongly recommended to check each time that the selected option is the desired one.

According to the selected option different situations can occur.

If each time **Data Key** is connected to **MyChron4** firmware updating starts it means the second option has been selected.

In case firmware updating is attended, the file has been downloaded and run but the procedure does not start, the third option has been selected.

If for any reason firmware downgrading is wished, the file is installed on the **Data Key** but installation is not successful, the first option has been selected.



How Data Key downloads data

To download data stored in **MyChron4** connect **Data Key** to the logger. Firmware version check is made automatically, selected working mode is followed and then data download procedure is activated.

Available options are three:

- data download starts if data stored in MyChron4 memory have never been downloaded on that Data Key;
- data stored in MyChron4 memory have already been downloaded on that Data Key;
- there are no data in **MyChron4** memory.

Once data have been downloaded it is possible to transfer them on a PC following this procedure:

- connect Data Key to the PC USB port
- run Race Studio 2;
- press "Download data": this panel appears:

🕹 Download 2.30.21 - USB-CAN KEY													
	C:\Programmi\AIM\DATA\										-		
ORK File Name (Track> <driver> <test number=""> <year (="")="" yyyy="">-<month> <loggertype>.drk</loggertype></month></year></test></driver>										-			
⊠≣		Select all			Deselect all		Hide runs marked as "Hidden"			Ø	Options		
N	Sel.	Dow	Hi	Driver		Date of Run	Laps	Max speed	Max tem	Max tem	DRK file name		
1		5 🔿 N.		S ROBY		September 16, 2009	1	0	0	0	KKK ROBY r003 2	009-09 M4_001.drk	Τ
2		5 🔿 N.		S ROBY		September 16, 2009	1	0	0	0	KKK ROBY r002 2	009-09 M4_001.drk	T
3		5 🔿 N.		S ROBY		September 16, 2009	1	0	0	0	KKK ROBY r001 2	009-09 M4_001.drk	T
4		5 🔿 N.		S ROBY		February 01, 2009	1	40	0	0	KKK ROBY r006 2	009-02 M4_001.drk	T
5		5 (C) N.		S ROBY		February 01, 2009	1	0	0	0	KKK ROBY r005 2	009-02 M4_001.drk	T
6		5 🔿 N.		5 ROBY		February 01, 2009	1	0	0	0	KKK ROBY r004 2	009-02 M4_001.drk	T
7		5 <u>(</u> N.		S ROBY		February 01, 2009	1	0	0	0	KKK ROBY r003 2	009-02 M4_001.drk	T
8		5 🔿 N.		S ROBY		February 01, 2009	1	0	0	0	KKK ROBY r002 2	009-02 M4_001.drk	I
9		5 (O) N.		S ROBY		February 01, 2009	1	0	0	0	KKK ROBY r001 2	009-02 M4_001.drk	T
Operation status													
0%													
Clear data-key Download selected runs, then clear memory.													

As can be observed it allows to manage downloaded data and **Data Key** memory.