

Designed to provide an easy and useful way of acquiring vehicle information, the Micro Input Module allows you to pick up parameters such as RPM and throttle angle and synchronise it with the GPS data in your Racelogic logger.

The Micro Input Module has an RPM (digital) frequency input and four analogue voltage inputs. Communication with connected units is via RS232 or CAN, depending on the type of data logger connected.

The Micro Input Module comes in five package variations.



Used with PerformanceBox, DriftBox and VBOX Mini ONLY. (PerformanceBox units older than October 09 require hardware upgrade)

### 2) RLVBMICINO1L

Used with VBOX units with Lemo connections such as Video VBOX Pro, VBOX Video HD2, VB2SX and VBOX 3i.

### 3) RLVBMICINO1F

Used with units with Fischer connections: VBOX Micro or Performance Box Sport ONLY.

### 4) RLVDLMICIN01

Used with Video VBOX Lite only.

#### 5) **RLVDWMICIN01**

Used with Video VBOX Waterproof only.





VBMICIN01 connected to a Performance Box





### Inputs / Outputs

Inputs	Outputs		
Analogue Inputs (AN1 – AN4)	CAN Output		
4 analogue inputs are included, which are capable of measuring 0 – 14.5V DC.	The analogue and digital signals are outputted via CAN when the Micro Input Module is connected to a VBOX. Note that CAN is output only – cannot take an input from Vehicle CAN.		
RPM Input (RPM)	RS232		
The RPM input connects to the low-tension side of an ignition coil, enabling users to detect the RPM frequency. The input can process voltage spikes in excess of +/- 200 V, and a maximum of 666 Hz i/p frequency. The RPM input is a digital frequency input and is also capable of measuring digital signals such as 5 V TTL and 0 – 12 V digital pulse signals.	VBOX Mini, DriftBox, and PerformanceBox utilise the RS232 output.		
0 7 =	Pin Function		
RPM GND AGND +5V AN1 AN2 AN2 AN2 CAN L CAN L	1 Module RS232 Receive		
COM	2 CAN H (output only on appropriate model – cannot connect to Vehicle CAN)		
Front panel inputs and LED indicators. (Note that CAN is output only – cannot take an input from Vehicle CAN)	3 CAN L (output only on appropriate model – cannot connect to vehicle CAN)		







## **Specification**

Analogue Inputs		Outputs	
Input Number	4 x Analogue input (for throttle position sensor etc.)	VBOX/ Video VBOX	CAN Bus (Output only – cannot connect to vehicle)
Input Range	0 – 14.5 V	VBOX Mini/ PB / DB	RS232
Resolution	14 mV (10 bit Analogue to Digital Conversion)	Sensor Supply	5 V
Input Impedance	4 ΜΩ		
Accuracy	±30 mV		
Digital (RPM) Input			
Input Number	1 x RPM Input: connection to low tension coil signal		
Input Frequency Range	0 - 666 Hz (0 - 333 Hz for historic mod unit VBMICIN01H)		
Voltage	12 V peak-peak I/P voltage - low tension side of coil tolerant		
Resolution	0.1 RPM		

Power		
Output	5 V sensor supply – 300mA max	
Operating Range	6 V - 30 V – powered from connected data logger	
LEDs	2 LEDs: indicate operation	

Environmental and physical		
Size	68 mm x 68 mm x 30 mm	
Operating Temperature	-30°C to +70°C	
Storage Temperature	-40°C to +85°C	
Weight	65 g	



## **Package Contents**

Description	Qty	RL Part #			
RLPBMICIN01 (PB / DB / VBOX Mini)					
Micro Input Module unit	1	VBMICIN01			
Connecting cable	1	RLCAB094			
RLVBMICIN01F (VBOX Micro / PB Sport)					
Micro Input Module unit	1	VBMICIN01C			
Connecting cable	1	RLCAB091			
RLVBMICIN01L (VVB Pro / VBOX Video HD2 / VBOX)					
Micro Input Module unit	1	VBMICIN01C			
Connecting cable	1	RLCAB090-C			
RLVDLMICIN01 (VVB Lite)					
Micro Input Module unit	1	VBMICIN01C			
Connecting cable	1	RLCAB094-C			
RLVDWMICIN01 (VVB Waterproof)					
Micro Input Module unit	1	VBMICIN01C			
Connecting cable	1	RLCAB094H			