

VBOX CAN Gateway (RLVBCGW01)



The VBOX CAN Gateway is designed to control flow of CAN data between two separate buses. It allows logging of vehicle CAN or CAN FD bus data to a VBOX system while simultaneously allowing secondary CAN modules such as the Mini input module to communicate with the VBOX.

Under normal circumstances, attempting to capture CAN data from a car as well as that from a module would lead to VBOX and VBOX Module data being put into the vehicle CAN Bus – with unpredictable and almost certainly unwanted results. The CAN Gateway allows for both data streams to be logged by the VBOX without any of the module traffic going back onto the vehicle Bus.



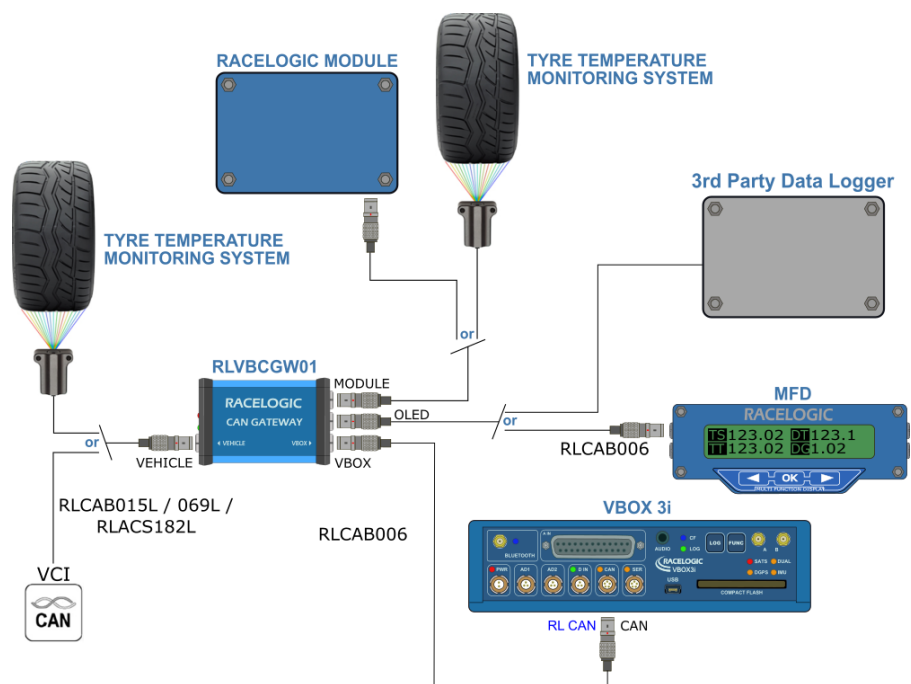
When connected to a PC via the supplied USB cable (RLCAB117), the CAN Interface can be programmed using dedicated setup software to read almost any CAN or CAN FD format message and be configured to then re-transmit them onto the VBOX CAN bus.

Features

- Allows the conversion of CAN FD messages to CAN suitable for use with VBOX products
- Simple configuration software
- 125 Kbit, 250 Kbit, 500 Kbit and 1 Mbit CAN rates and up to 4 MB data rates for CAN FD
- Isolates VBOX data from vehicle CAN bus
- Input up to 32 CAN or CAN FD data channels from vehicle or another CAN bus
- Output 32 CAN data Channels to VBOX

Module Connection Example

CAN Gateway can be connected to a VBOX 3i via an RLCAB006 cable (included in package) in order to record data from a vehicle CAN Bus and a Racelogic module at the same time.



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Inputs / Outputs



Connection	Function
CAN A Vehicle	CAN or CAN FD Data is captured and transferred to CAN B output for logging.
CAN B OLED	Connection for the RLVBDSP03-24 Multi-Function Display.
CAN B Module	Connection to input module. For example, RLVBMIM01 Mini Input Module or RLVBMICIN01 Micro Input Module.
CAN B VBOX	Connection to VBOX VB3i CAN Bus.
USB	Configuration via PC. When connected to a PC via the supplied RLCAB117 USB cable, CAN Gateway will be powered and will appear as a USB drive.

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PIN Allocation

Vehicle Connector			
Pin	I/O	Function	
1	O	Rx-RS232 (1)	
2	I	Tx-RS232 (1)	
3	I/O	CAN High (CAN A)	
4	I/O	CAN Low (CAN A)	
5	O	Power	

VBOX Connector			
Pin	I/O	Function	
1	O	Rx-RS232 (Pass-through)	
2	I	Tx-RS232 (Pass-through)	
3	I/O	CAN High (CAN B)	
4	I/O	CAN Low (CAN B)	
5	O	Power	

OLED Connector			
Pin	I/O	Function	
1	O	Rx-RS232 (Pass-through)	
2	I	Tx-RS232 (Pass-through)	
3	I/O	CAN High (CAN B)	
4	I/O	CAN Low (CAN B)	
5	O	Power	

Module Connector			
Pin	I/O	Function	
1	O	Rx-RS232 (2)	
2	I	Tx-RS232 (2)	
3	I/O	CAN High (CAN B)	
4	I/O	CAN Low (CAN B)	
5	O	Power	

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Environmental and Physical

Operating Temperature	-20°C to +70°C
Storage Temperature	-40°C to +85°C
Input Voltage	4.5 - 30 V DC
Power	0.6 W
Weight	110g
Dimensions	L 90.8 mm (3.57") W 57.13 mm (2.26") H 26.13 mm (1.03")
Protection Rating	IP 51

Package Contents

Description	Product Code
1x CAN Gateway module	VBCGW01
1x VBOX to VBOX Module cable (30 cm)	RLCAB006
1x USB 'A' to Micro 'B' cable (1.8 m)	RLCAB117

Optional cable to connect to a vehicle CAN bus:

- Unterminated CAN cable (RLCAB015L)
- Lemo 5W plug - 9W D Socket CAN cable (RLCAB019L)
- OBD CAN cable (RLCAB069L) -
If CAN is available on the OBD connector

