

# VBOX CAN Gateway (RLVBCGW01)

**VBOX**  
MOTORSPORT

The VBOX CAN Gateway allows logging of vehicle CAN bus data in a VBOX system where secondary CAN modules such as the OLED display or analogue input modules are used.

Under normal circumstances, attempting to capture CAN data from a car as well as that from a module (such as the Mini or Micro Input 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 Video HD2 without any of the module traffic going back onto the vehicle Bus.



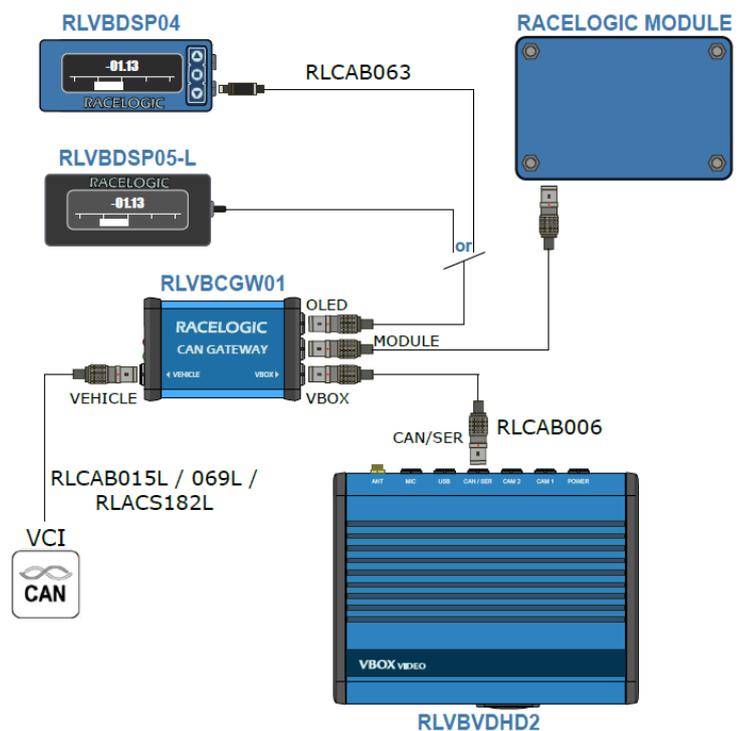
## Features

- Simplifies connection of wiring to OLED, modules and vehicle CAN bus.
- Auto-detects the baud rate of the connected vehicle/sensor CAN bus
- Simultaneous use of a VBOX input module and an OLED display
- Simple USB configuration

## Module Connection Example

CAN Gateway can be connected to a VBOX Video HD2 via a RLCAB006 cable (included in package) in order to record data from a vehicle CAN Bus and a Racelogic module at the same time.

It also allows the connection of an OLED Display (RLVBDSP04 or RLVBDSP05-L).



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## Inputs / Outputs



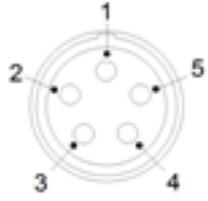
Connection	Function
<b>CAN A Vehicle</b>	VBOX CAN Gateway will auto detect the baud rate of the connected vehicle/sensor CAN Bus. Data is captured and transferred to CAN B output for logging.
<b>CAN B OLED</b>	Connection for the RLVBDSP04 or RLVBDSP05-L OLED display
<b>CAN B Module</b>	Connection to input module. For example RLVBMIM01 Mini Input Module or VBMICIN01 Micro Input Module
<b>CAN B VBOX</b>	Connection to VBOX Video HD2 CAN Bus
<b>USB</b>	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, allowing configuration files to be placed directly onto it.

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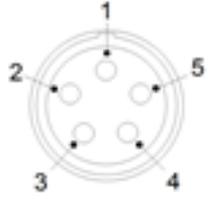


## PIN Allocation

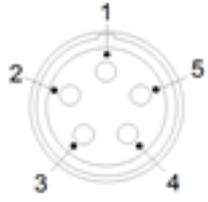
Vehicle Connector		
Pin	I/O	Function
1	O	Rx-RS232 (1)
2	I	Tx-RS232 (1)
3	I/O	CAN High (CAN A)
4	I/O	CAN Low (CAN A)
5	O	Power



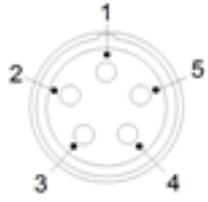
VBOX Connector		
Pin	I/O	Function
1	O	Rx-RS232 (Pass-through)
2	I	Tx-RS232 (Pass-through)
3	I/O	CAN High (CAN B)
4	I/O	CAN Low (CAN B)
5	O	Power



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)
- OBD CAN cable (RLCAB069L) -  
If CAN is available on the OBD connector
- Clip-On-CAN Bus Interface (RLACS182-L)

