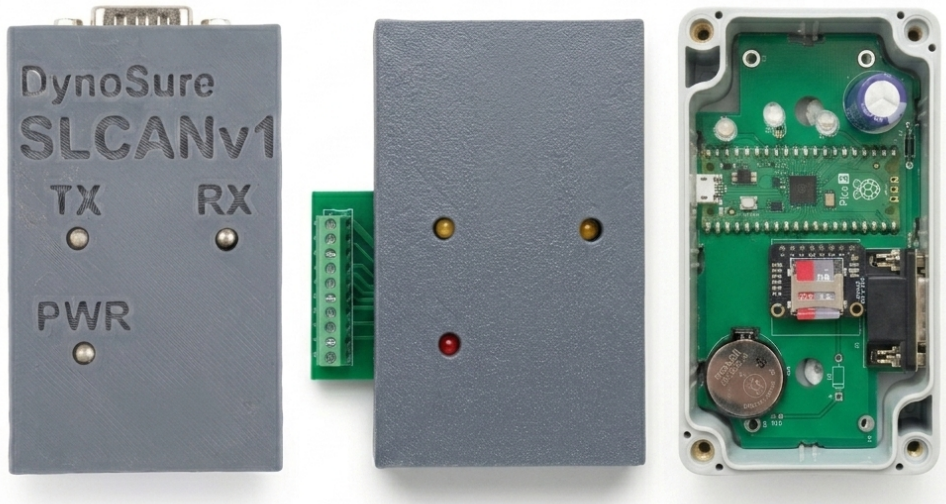
DynoSure

AUTOMOTIVE CAN BUS SOLUTIONS

Comprehensive Product Catalog & Specifications Guide



Affordable, reliable diagnostic and data logging hardware engineered specifically for the Indian automotive sector. Based on open-source standards with vendor lock-in free integrations.

DynoSure India
Vadodara, Gujarat, India | Email: dynosure.india@gmail.com | Web: www.dynosure.co.in

DynoSure SLCANv1

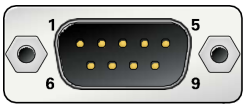
Model: SLCANv1 (USB-to-CAN Adapter)

The DynoSure SLCANv1 adapter provides a reliable and convenient connection between a PC and a CAN bus. Based on the open-source CANable2 firmware and the Lawicel SLCAN protocol, it exposes the CAN interface as a standard virtual COM port, simplifying integration with existing tools and reducing software overhead.

Specifications

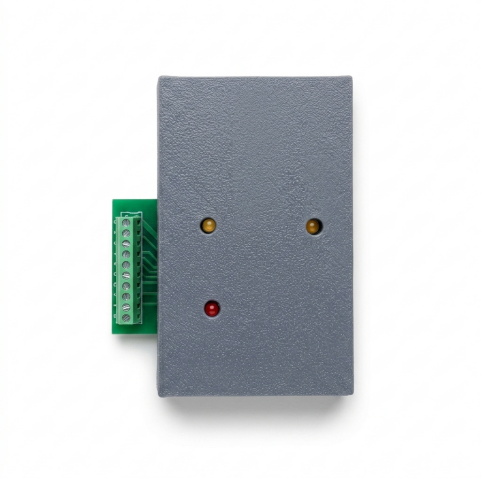
Parameter	Details
Microcontroller	STM32G4 Series, 170 MHz
CAN Protocols	CAN 2.0A (11-bit), CAN 2.0B (29-bit), CAN-FD
USB Interface	USB 2.0 Full-Speed (compatible with USB 1.1 / 3.0)
Standard Bitrates	5 kbps to 1 Mbps
CAN-FD Bitrates	Up to 8 Mbps data phase bitrates
Power Supply	USB-powered (no external supply required)
Compatibility	Windows & Linux (exposes standard Virtual COM Port)

DB9 Pinout Assignment



DB9 Pin	Assignment
Pin 2	**CAN-L** (CAN Low)
Pin 3	**GND** (Ground)
Pin 6	**GND** (Ground, secondary)
Pin 7	**CAN-H** (CAN High)
Others	Not Connected

DynoSure SLCAN GPIO



Model: SLCAN GPIO (USB-to-CAN with 8-ch GPIO Control)

The DynoSure SLCAN GPIO combines a full-featured USB-to-CAN adapter with 8 configurable GPIO outputs. This gives hardware developers and test engineers both CAN bus communication and physical hardware control in a single compact device. Exposes CAN standard interfaces and digital outputs directly through internal messaging controls.

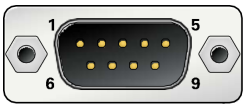
Specifications

Parameter	Details
Microcontroller	STM32G4 Series, 170 MHz
CAN Protocols	CAN 2.0A (11-bit), CAN 2.0B (29-bit), CAN-FD
USB Interface	USB 2.0 Full-Speed
GPIO Channels	8 Configurable Digital Outputs
Power Supply	USB-powered (no external supply required)

GPIO Control Protocol

Field	Value / Description
CAN ID	**0x1FFF** (Extended 29-bit ID)
DLC	**2**
Byte 0	GPIO States (Bit 0 = GPIO 0 ... Bit 7 = GPIO 7). 1 = HIGH, 0 = LOW
Byte 1	**0xAA** (Fixed GPIO command identifier)

DB9 CAN Pinout



DB9 Pin	Assignment
Pin 2	**CAN-L** (CAN Low)
Pin 3	**GND** (Ground)
Pin 7	**CAN-H** (CAN High)
Others	Not Connected

DynoSure LoggerV1

Model: LoggerV1 (Standalone CAN Data Logger)

The DynoSure LoggerV1 is a standalone CAN bus data logger designed specifically to capture CAN 2.0 traffic to onboard storage without requiring a connected PC during operations. It logs data in the industry-standard Vector ASC file format, avoiding restrictive closed ecosystems and vendor lock-in.

Standalone CAN Data Logger with Raspberry Pi Pico 2

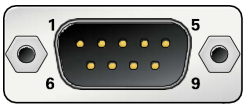
Specifications

Parameter	Details
CAN Protocols	CAN 2.0A (11-bit ID), CAN 2.0B (29-bit extended ID)
Storage	Onboard microSD card (FAT32 filesystem)
Log Format	Vector ASC (standard ASCII format)
USB Interface	USB 2.0 (Mass Storage Device / Card Reader mode)
Power Modes	• **Logging Mode**: Requires **+12V DC** external supply • **USB Mode**: USB-powered (acts as SD card reader)
Firmware Update	User-programmable at customer end

Baud Rate Configuration

Key Value	Resulting CAN Bus Speed
1	**500 kbps** (Standard default)
2	**1 Mbps** (High speed CAN)
3	**250 kbps** (Medium speed CAN)

DB9 CAN & Power Pinout



DB9 Pin	Assignment
Pin 2	**CAN-L** (CAN Low)
Pin 3	**GND** (Power Ground)
Pin 7	**CAN-H** (CAN High)
Pin 9	**+12V DC** (Power Input)
Others	Not Connected