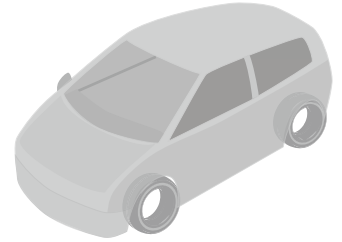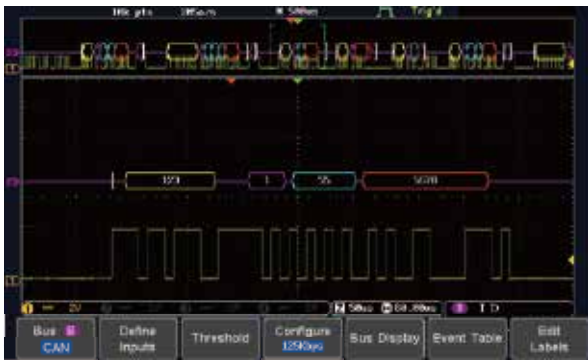# To trigger and decode CAN / LIN data for Automotive application.

GDS-2000E, MSO-2000E/EX, MDO-2000E/EX

SPI, UART, I2C, CAN and LIN trigger and decode

GDS-2000E, MSO-2000E, and MDO-2000E series can trigger and decode the Serial interfaces, SPI, UART, I2C, CAN and LIN.

Each input can be displayed as binary, hexadecimal or ASCII.

These can be displayed not only as a serial bus signal but also as the Event table.

Event Tables have an event table saved containing each bus event as a CSV file. An event is defined as a packet/frame/word or an associated set of data being successfully read according to the specific operating conditions of each bus. The data associated with each event and the time of each event are recorded.

✅ CAN Bus

GND

CAN Input

Inputs	CAN Input
Threshold	CAN Input
Configuration	Signal Type, Bit Rate
Trigger On	Start of Frame, Type of Frame, Identifier, Data, Id & Data, End of Frame, Missing Ack, Bit Stuffing Err.

* The GDS-2000E/MSO-2000E/MDO-2000E supports both CAN 2.0A and 2.0B.

* The GDS-2000E/MSO-2000E/MDO-2000E only needs one wire, CAN-High or CAN-Low for decoding.

Identifier   DLC   CRC   Missing ACK
Time of trigger   Data
Select cursor
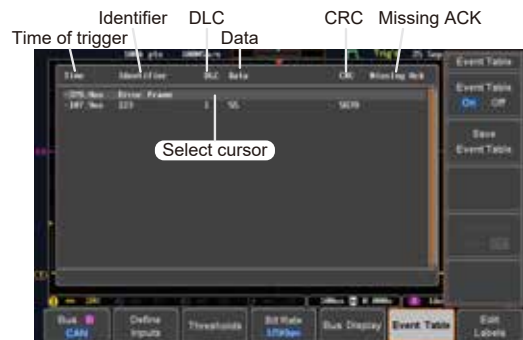
✅ LIN Bus

GND

LIN Input

Inputs	LIN Input
Threshold	LIN Input
Configuration	Bit Rate, LIN Standard*, Include Parity Bits with Id
Trigger On	Sync, Identifier, Data, Id & Data, Wakeup Frame, Sleep Frame, Error

* LIN Standard: V1.x, V2.x, Both

Identifier   Data   Errors
Time of trigger   Parity   Checksum
Select cursor