

CAN Bus 2.0A/2.0B General and SAE J1939

Supported series: CAN Bus 2.0A / CAN Bus 2.0B / SAE J1939.

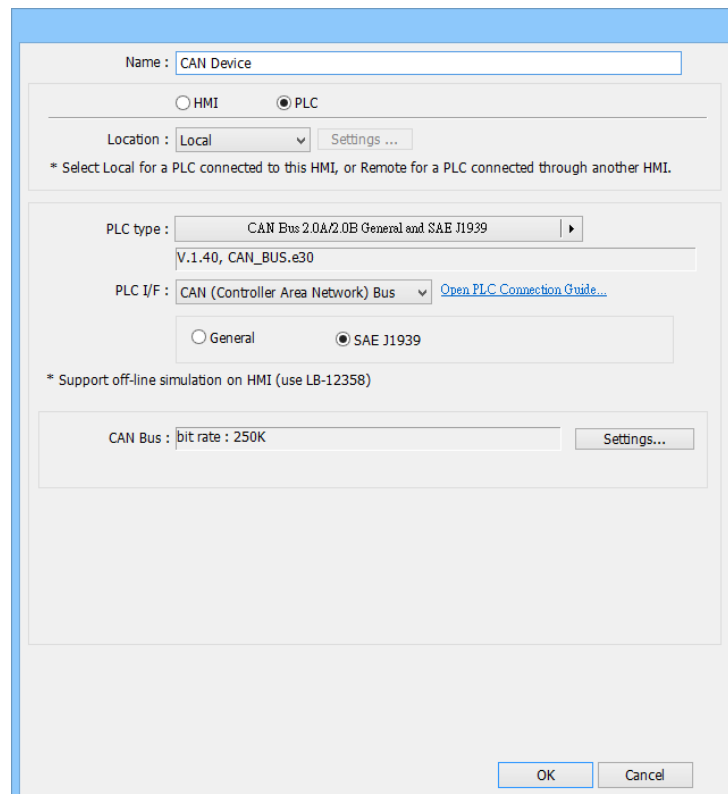
HMI Setting:

Parameters	Recommended	Options	Notes
PLC type	CAN Bus 2.0A/2.0B General and SAE J1939		
	General	General / SAE J1939	
Baud rate	250K	20K~1M	
Reset RDO when communication fails			

Online simulator	NO	Extend address mode	NO
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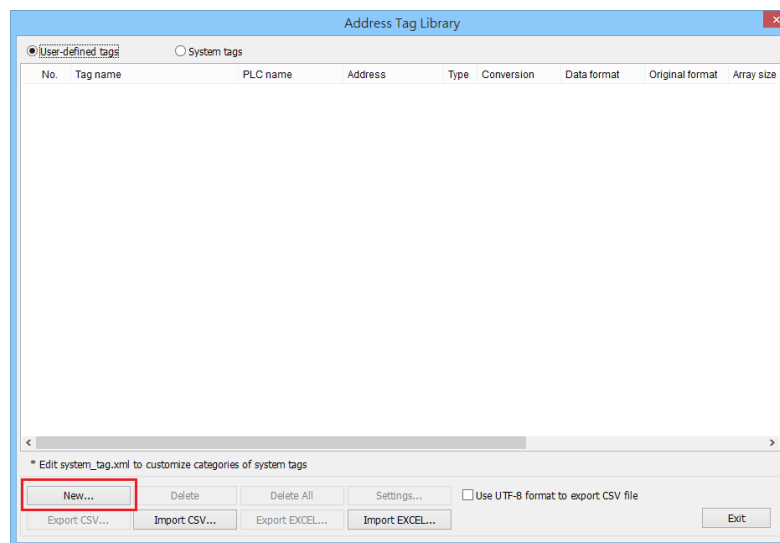
How to import SAE J1939 address tags:

1. In EasyBuilder Pro add **[CAN Bus 2.0A/2.0B General and SAE J1939]** driver.



The screenshot shows the configuration dialog for a CAN device. The 'Name' field is set to 'CAN Device'. The device type is set to 'PLC'. The location is set to 'Local'. The PLC type is 'CAN Bus 2.0A/2.0B General and SAE J1939'. The PLC I/F is 'CAN (Controller Area Network) Bus'. The communication mode is set to 'SAE J1939'. The CAN bus bit rate is set to '250K'. The dialog includes 'OK' and 'Cancel' buttons at the bottom.

2. Open Address Tag Library, select **[User-defined tags]** and then click **[New]**.



3. Name: Enter the tag name.

PLC: Select the **SAE J1939**

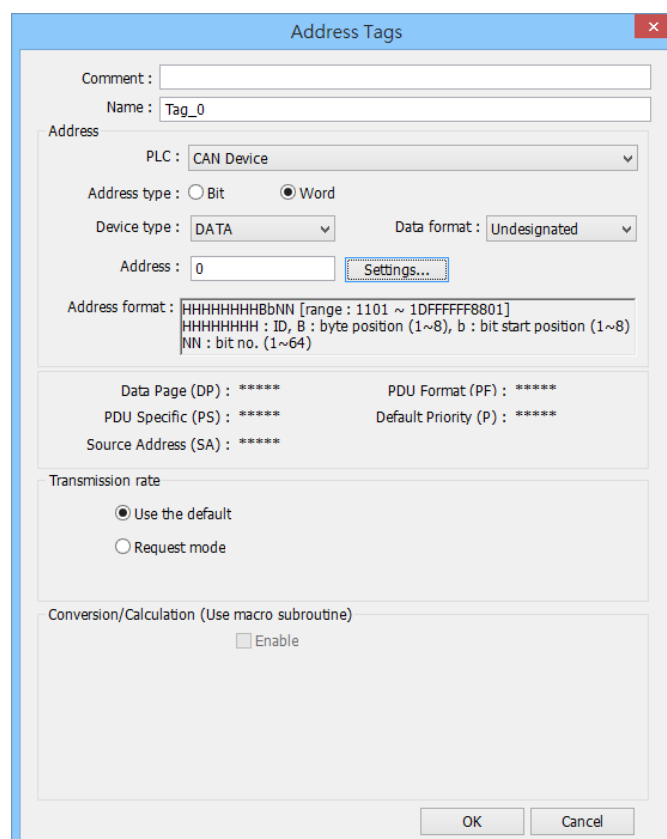
Address type: Select **Bit** or **Word**.

Transmission rate:

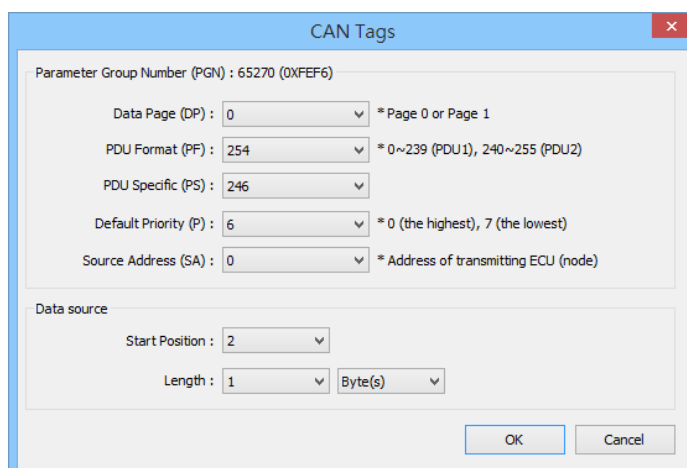
If **[Use the default]** is selected, then HMI will wait for the reply from CAN device.

If **[Request mode]** is selected, then HMI will send polling packet.

After entering the above information, click **[Settings]**.



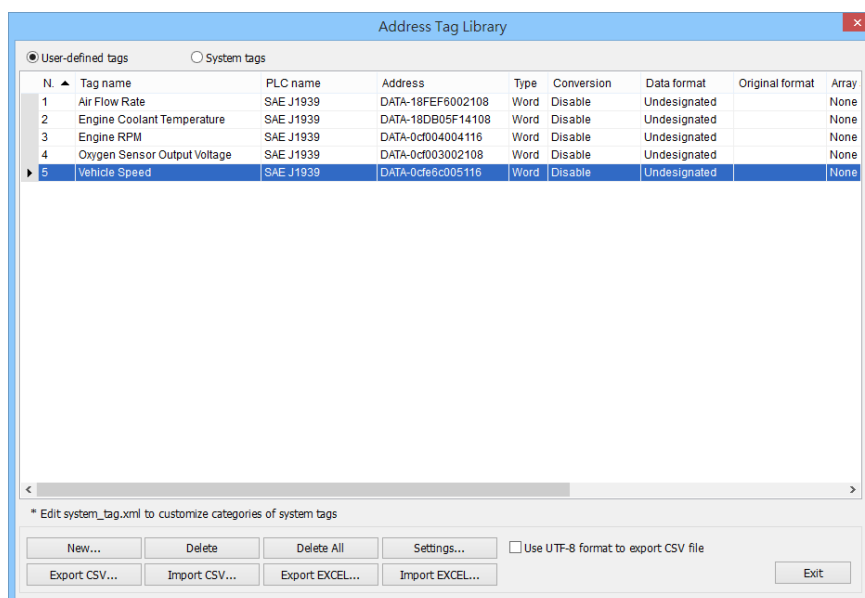
4. Please set the following parameters according to the specification of the CAN device used.



The CAN Tags dialog box shows the following configuration:

- Parameter Group Number (PGN) : 65270 (0XFEF6)
- Data Page (DP) : 0 * Page 0 or Page 1
- PDU Format (PF) : 254 * 0~239 (PDU1), 240~255 (PDU2)
- PDU Specific (PS) : 246
- Default Priority (P) : 6 * 0 (the highest), 7 (the lowest)
- Source Address (SA) : 0 * Address of transmitting ECU (node)
- Data source:
 - Start Position : 2
 - Length : 1 Byte(s)

5. After building the tags click **[Exit]**.



The Address Tag Library dialog box shows the following table of tags:

N.	Tag name	PLC name	Address	Type	Conversion	Data format	Original format	Array
1	Air Flow Rate	SAE J1939	DATA-18FEF6002108	Word	Disable	Undesignated		None
2	Engine Coolant Temperature	SAE J1939	DATA-18DB05F14108	Word	Disable	Undesignated		None
3	Engine RPM	SAE J1939	DATA-0c004004116	Word	Disable	Undesignated		None
4	Oxygen Sensor Output Voltage	SAE J1939	DATA-0c003002108	Word	Disable	Undesignated		None
5	Vehicle Speed	SAE J1939	DATA-0cfe6c005116	Word	Disable	Undesignated		None

Buttons at the bottom: New..., Delete, Delete All, Settings..., Use UTF-8 format to export CSV file, Export CSV..., Import CSV..., Export EXCEL..., Import EXCEL..., Exit.

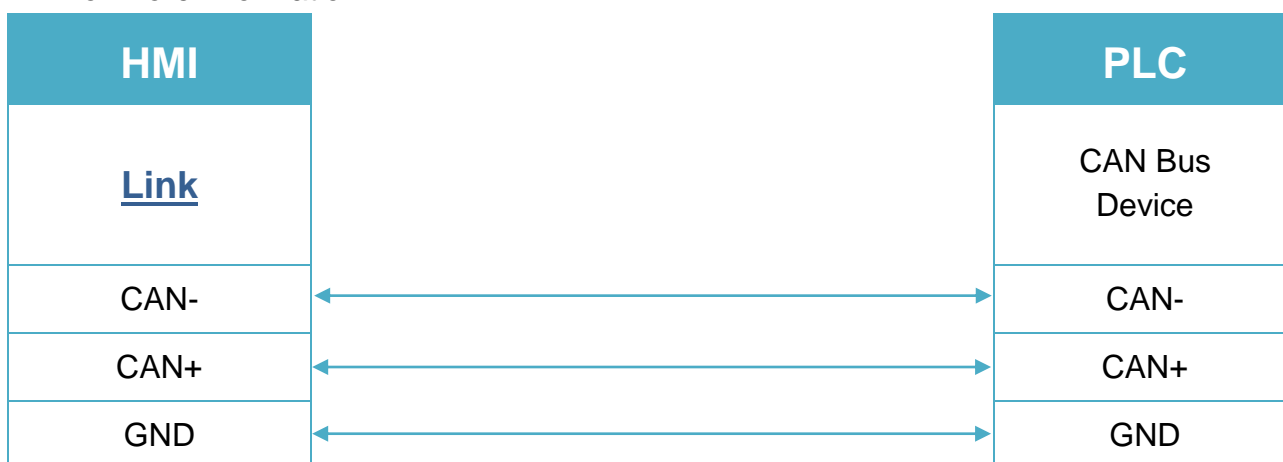
Device Address:

Bit/Wor	Device type	Format	Memo
B	DATA_Bit	HHHHHHHHBb	H: ID B: Byte position (1~8) b: Bit start position (1~8)
B	RTR	HHHHHHHHBb	H: ID B: Byte position (1~8) b: Bit start position (1~8)
W	DATA	HHHHHHHHBbNN	H: ID B: Byte position (1~8) b: Bit start position (1~8) NN: Bit no. (1~64)

Wiring Diagram:

CANBus

The serial port pin assignments may vary between HMI models, please click the following link for more information.



To minimize signal reflection on the CAN bus network, termination resistors should be installed at both ends of the network, as shown in the following figure.

