

CAN Bus CANopen Slave

Supported series: CAN Bus 2.0a / CAN Bus 2.0B device.

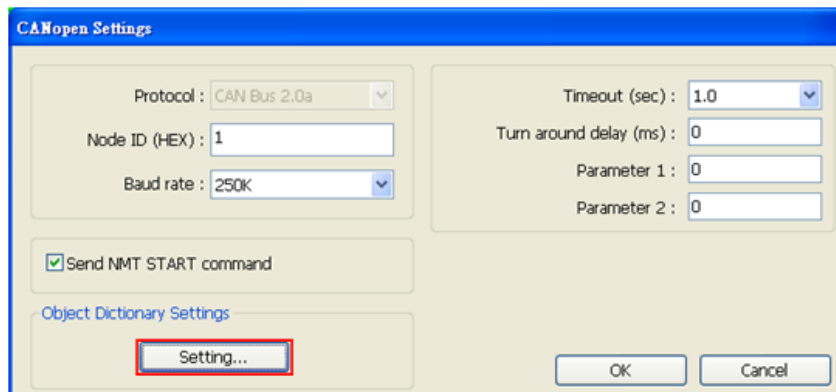
HMI Setting:

Parameters	Recommended	Options	Notes
PLC type	CAN Bus CANopen Slave		
Node ID	1	1~127	
Baud rate	250K	20K~1M	
RPDO command with 8 byte			
Send NMT START Command		Use default command Use user-defind command	

Online simulator	NO	Extend address mode	NO
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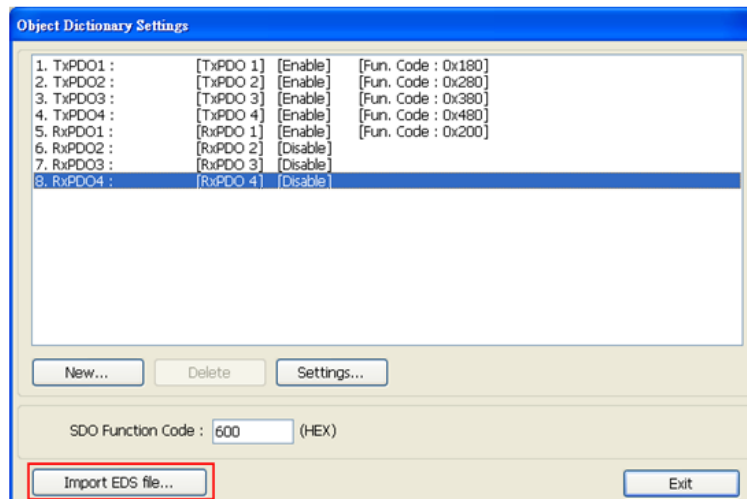
Follow the steps to import EDS file.

Step 1. Object Dictionary Settings -> Setting



The screenshot shows the 'CANopen Settings' dialog box. The 'Protocol' is set to 'CAN Bus 2.0a', 'Node ID (HEX)' is '1', and 'Baud rate' is '250K'. The 'Timeout (sec)' is '1.0', 'Turn around delay (ms)' is '0', 'Parameter 1' is '0', and 'Parameter 2' is '0'. The 'Send NMT START command' checkbox is checked. Under 'Object Dictionary Settings', the 'Setting...' button is highlighted with a red box. 'OK' and 'Cancel' buttons are at the bottom right.

Step 2. Import EDS file.

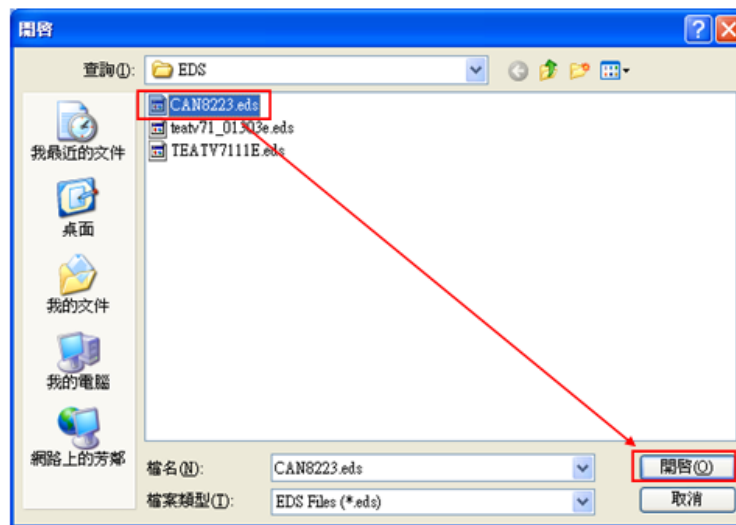


The screenshot shows the 'Object Dictionary Settings' dialog box. It contains a table with the following data:

ID	Object Name	Access	Function Code
1	TxPDO1	[TxPDO 1]	[Enable] [Fun. Code : 0x180]
2	TxPDO2	[TxPDO 2]	[Enable] [Fun. Code : 0x280]
3	TxPDO3	[TxPDO 3]	[Enable] [Fun. Code : 0x380]
4	TxPDO4	[TxPDO 4]	[Enable] [Fun. Code : 0x480]
5	RxPDO1	[RxPDO 1]	[Enable] [Fun. Code : 0x200]
6	RxPDO2	[RxPDO 2]	[Disable]
7	RxPDO3	[RxPDO 3]	[Disable]
8	RxPDO4	[RxPDO 4]	[Disable]

Buttons 'New...', 'Delete', and 'Settings...' are visible. The 'SDO Function Code' is set to '600 (HEX)'. The 'Import EDS file...' button is highlighted with a red box. An 'Exit' button is at the bottom right.

Step 3. Select the EDS file to be imported.



Step 4. Successfully import EDS file.



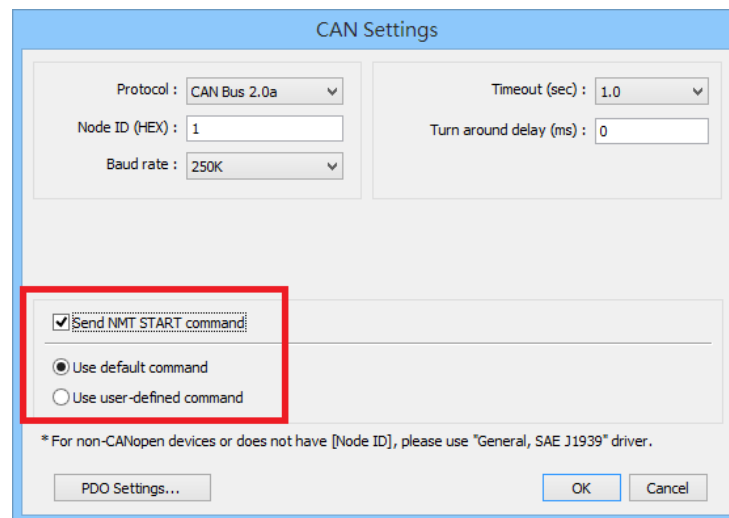
Device Address:

Bit/Wor	Device type	Format	Range	Memo
B	TxPDOOn_BIT	Dd	0 ~ 77	D : address (unit: byte) d : bit no.
B	RxPDOOn_BIT	Dd	0 ~ 77	D : address (unit: byte) d : bit no.
B	SDO_8bit_Bit	HHHHHHo	0 ~ FFFFFFF7	HHHH(Index)+HH(Sub-index)+o(Bit no)
B	SDO_16bit_Bit	HHHHHHdd	0 ~ HHHHHH15	HHHH(Index)+HH(Sub-index)+dd(Bit no)
B	NMT START Command	Dd	0	*Note
W	TxPDOOn	D	0 ~ 7	

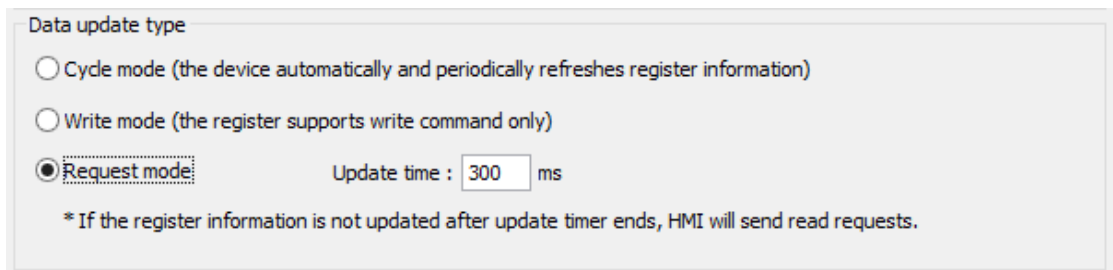
Bit/Wor	Device type	Format	Range	Memo
W	TxPDOOn_Byte	D	0 ~ 7	
W	RxPDOOn	D	0 ~ 7	
W	RxPDOOn_Byte	D	0 ~ 7	
W	SDO_8bit	HHHHHH	0~FFFFFF	HHHH(Index)+HH(Sub-index)
W	SDO_16bit	HHHHHH	0~FFFFFF	
W	SDO_32bit	HHHHHH	0~FFFFFF	

*Note:

NMT START COMMAND will be sent when this BIT is set to ON, and will return to OFF after sending. The **[Send NMT START command]** in CAN Settings must be checked, otherwise it is invalid.



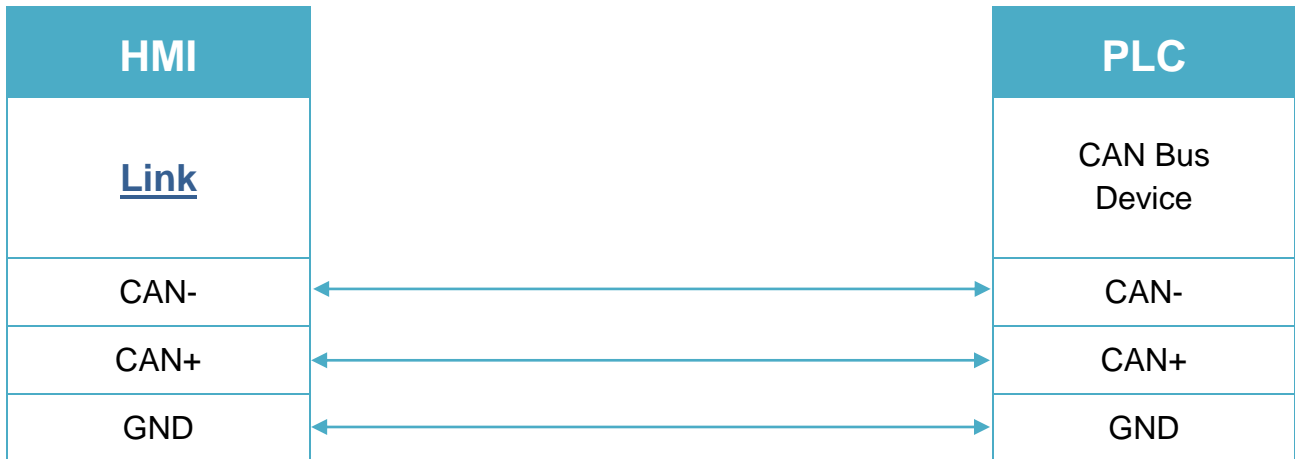
When using **NMT START command** and **Request mode**, the **[Update time]** must be set to 300ms or more



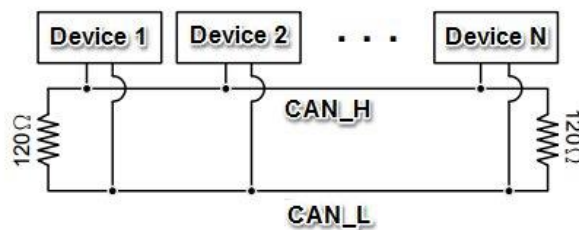
Wiring Diagram:

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.



Demo Project Link:

