
CANopen Slave Device

CAN-2057C-32

Application User's Manual

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Contents

1	Introduction	3
1.1	Overview	3
1.2	Hardware Specifications	4
1.3	Features	5
1.4	Application	6
2	Hardware	7
2.1	Structure	7
2.2	Node ID & Baud Rate Rotary Switch	8
2.3	LED Description	9
2.4	PIN Assignment	10
2.5	Wire Connection	11
3	Object Dictionary	12
3.1	Object List	12
3.2	Store and Restore Object.....	17
3.3	Application Object	18
3.4	Default PDO Mapping	22

1 Introduction

1.1 Overview

CAN-2057C-32 is a CANopen slave module and it has 32 Digital output channels with open-collector output type. It can be used to develop powerful and cost effective digital control system.



Figure 1-1 CAN-2057C-32

1.2 Hardware Specifications

Digital Output:

- Output Channels: 32 (Sink)
- Output Type: Open-collector.
- Max Load Current: 100 mA per channel.
- Load Voltage: +5 V_{DC} ~ +30 V_{DC}.
- Intra-module Isolation, Field to Logic: 3750 Vrms.
- Reaction Time:
 - DO Message to rising edge: 50 us.
 - DO Message to falling edge: 100 us.
- ESD Protection: 4 kV Contact for each channel.

Others:

- CANopen Status: 3 LEDs for PWR / RUN / ERR.
- Terminal Resister: 1 LED as terminator resistor indicators
- DO LED: 32 LEDs as digital output indicators.
- Power Requirement: +10 ~ +30 V_{DC}, 2.0 W.
- Operating Temperature: -25 ~ +75 °C.
- Storage Temperature: -30 ~ +80 °C.
- Humidity: 10 to 90% RH, Non-condensing.
- Dimensions: 31 mm x 165 mm x 129 mm (W x L x H) Detail.

1.3 Features

- Standard CANopen general I/O slave devices.
- CANopen Version: DS-301, v4.02.
- Device Profile: DSP-401, v2.1
- Provide normal/polarity 32 DO channels
- CANopen transfer rate: 10 kbps, 20 kbps, 50 kbps, 125 kbps, 250 kbps, 500 kbps, 800 kbps, 1000 kbps.
- Support maximum CANopen slave devices Node-ID up to 99.
- Set Node-ID 0 for firmware update (after version 1.40-20111227).
 - Firmware updates tools: I-7530 series, I-7540D series, I-7565 series, PISO-CM100 series, and PISO-CAN series.
- Support NMT, PDO, SDO, EMCY, SYNC, Guarding, and Heartbeat protocol.
- Pass the validation of CANopen conformance test
- Provide EDS file for CANopen master interface

1.4 Application

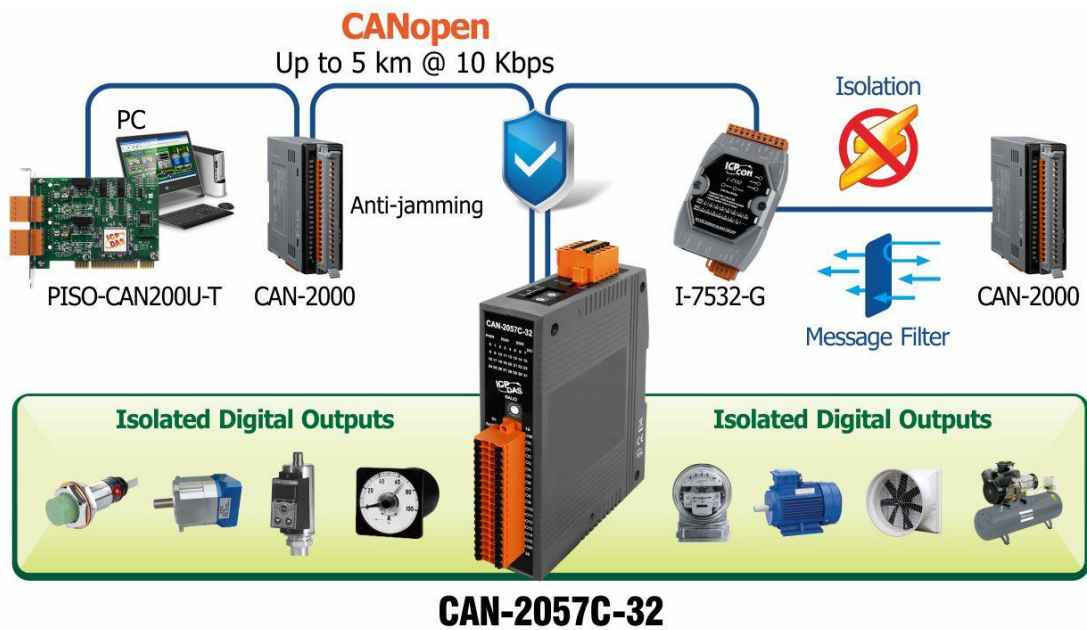


Figure 1-2 Application Structure

2 Hardware

2.1 Structure

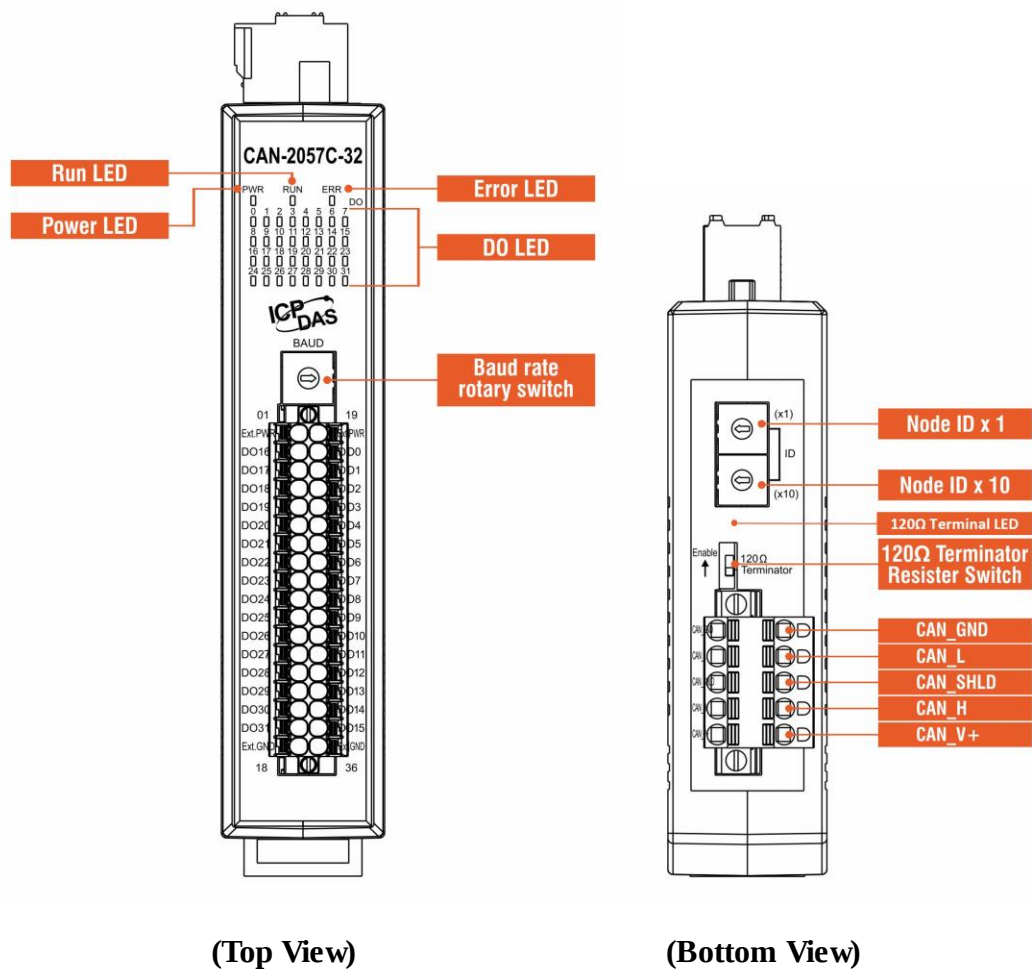


Figure 2-1 CAN-2057C-32 layout of LED, connect, and switch

2.2 Node ID & Baud Rate Rotary Switch

The rotary switches of node ID configure the node ID of CAN-2057C-32 module. These two switches are for the tens digit and the units digit of the node ID. The node ID value of this demo picture is 32.

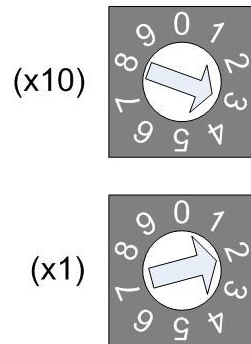


Figure 2-2 Node ID rotary switch

The rotary switch of baud rate handles the CAN baud rate of CAN-2057C-32 module. The relationship between the rotary switch value and the practical baud rate is presented in the following table.

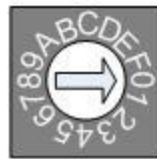


Figure 2-3 Baud rate rotary switch

Rotary Switch Value	Baud Rate (k bps)
0	10
1	20
2	50
3	125
4	250
5	500
6	800
7	1000

Table 2-1 Baud rate and rotary switch

2.3 LED Description

Power LED

CAN-2057C-32 allows 10 VDC ~ 30 VDC for working voltage. The power consumption is 1.5 W. Under the connection of a proper power connection, as the unit is turned on, the LED will light up in red.

Run LED

The Run LED indicates the CANopen operation state. The description of LED state is show below. About the detail, please refer to the section 2.3.1 of the CAN-2000C user manual.

LED Signal	State	Description
No Light	Non-operation	Power Supply is not ready
Single Flash	Stopped	The device is in Stopped state
Blinking	Pre-operational	Device is in Pre-operational state
Continuing Light	Operational	Device is in Operational state

Table 2-2 Run LED state description

Error LED

The Error LED indicates the CANopen error state. The description of LED state is show below. About the detail please refer to the section 2.3.2 of the CAN-2000C user manual.

LED Signal	State	Description
No Light	No error	Device is working well.
Single Flash	Error Warning	At least one CANopen error happened.
Double Flash	Guarding Fail	Guarding fail event happened.
Continuing Light	Bus Off	The bus off state happened.

Table 2-3 Err LED state description

Terminal Resistor LED

When enable the 120Ωterminator resistor, the LED will turn on.

DO LED

If the DO LED turns on, it means that the corresponding DO channel sends an ON voltage-level digital signal no matter what the DO channel polarity is. (User can configure the 0x6202 object to change the polarity of the DO channel. More detail in section 3.3.)

2.4 PIN Assignment

Terminal No.	Pin Assignment		Pin Assignment	Terminal No.
1	EXT.PWR		EXT.PWR	19
2	DO16		DO0	20
3	DO17		DO1	21
4	DO18		DO2	22
5	DO19		DO3	23
6	DO20		DO4	24
7	DO21		DO5	25
8	DO22		DO6	26
9	DO23		DO7	27
10	DO24		DO8	28
11	DO25		DO9	29
12	DO26		DO10	30
13	DO27		DO11	31
14	DO28		DO12	32
15	DO29		DO13	33
16	DO30		DO14	34
17	DO31		DO15	35
18	EXT.GND		EXT.GND	36

Figure 2-5 CAN-2057C-32 pin assignment

2.5 Wire Connection

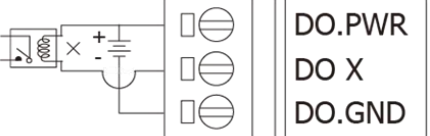
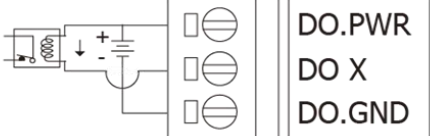
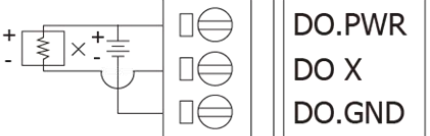
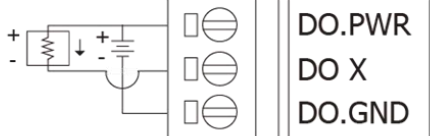
Module Name	CAN-2057C-32	
Output Type	ON State LED ON Readback as 1	OFF State LED OFF Readback as 0
Drive Relay	Relay Off	Relay ON
		
Resistance Load		

Figure 2-6 CAN-2057C-32 Wire connection

3 Object Dictionary

3.1 Object List

General Communication Entries

Idx	Sidx	Description	Type	Attr	Default
1000h	0h	device type	UNSIGNED 32	RO	00020191h
1001h	0h	error register	UNSIGNED 8	RO	0h
1003h	0h	largest sub-index supported for “predefine error field”	UNSIGNED 8	RO	0h
	1h	actual error (the newest one)	UNSIGNED 32	RO	---
	...	...	...	...	---
	5h	actual error (the oldest one)	UNSIGNED 32	RO	---
1005h	0h	COB-ID of Sync message	UNSIGNED 32	RW	80h
1008h	0h	manufacturer device name	VISIBLE_STRING	RO	CAN-2057C-32
1009h	0h	manufacturer hardware version	VISIBLE_STRING	RO	1.4
100Ah	0h	manufacturer software version	VISIBLE_STRING	RO	1.00-20260720
100Ch	0h	guard time	UNSIGNED 16	RW	0h
100Dh	0h	life time factor	UNSIGNED 8	RW	0h
1010h	0h	largest sub-index supported for “store parameters”	UNSIGNED 8	RO	3h
	1h	save all hardware parameter	UNSIGNED 32	RW	---
	2h	Store communication setting only.	UNSIGNED 32	RW	---
	3h	Store application setting only.	UNSIGNED 32	RW	---
1011h	0h	largest sub-index supported for “restore default parameters”	UNSIGNED 8	RO	3h
	1h	restore all default parameters	UNSIGNED 32	RW	---
	2h	Restore communication setting only.	UNSIGNED 32	RW	---
	3h	Restore application setting only.	UNSIGNED 32	RW	---
1014h	0h	COB-ID of EMCY	UNSIGNED 32	RW	80h+x
1017h	0h	producer heartbeat time	UNSIGNED 16	RW	0
1018h	0h	largest sub-index supported for “identity object”	UNSIGNED 8	RO	4
	1h	vender ID	UNSIGNED 32	RO	0x0000013C
	2h	product code	UNSIGNED 32	RO	0x02057C32
	3h	revision number	UNSIGNED 32	RO	0x00040001
	4h	serial number	UNSIGNED 32	RO	0x6cd3683c

Table 3-1 General object dictionary

Note: x is Node-ID of the module

SDO Communication Entries

Idx	Sidx	Description	Type	Attr	Default
1200h	0h	largest sub-index supported for “server SDO parameter”	UNSIGNED 8	RO	2
	1h	COB-ID form client to server (RxSDO)	UNSIGNED 32	RO	600h+x
	2h	COB-ID form server to client (TxSDO)	UNSIGNED 32	RO	580h+x

Table 3-2 SDO communication object dictionary

Note: x is Node-ID of the module

RxPDO Communication Entry

Idx	Sidx	Description	Type	Attr	Default
1400h	0h	Number of entries	UNSIGNED 8	RO	2
	1h	COB-ID used by RxPDO	UNSIGNED 32	RW	200h+x
	2h	Transmission type	UNSIGNED 8	RW	FFh
1401h	0h	Number of entries	UNSIGNED 8	RO	2
	1h	COB-ID used by RxPDO	UNSIGNED 32	RW	300h+x
	2h	Transmission type	UNSIGNED 8	RW	FFh
1402h	0h	Number of entries	UNSIGNED 8	RO	2
	1h	COB-ID used by RxPDO	UNSIGNED 32	RW	400h+x
	2h	Transmission type	UNSIGNED 8	RW	FFh
1403h	0h	Number of entries	UNSIGNED 8	RO	2
	1h	COB-ID used by RxPDO	UNSIGNED 32	RW	500h+x
	2h	Transmission type	UNSIGNED 8	RW	FFh
1404h	0h	Number of entries	UNSIGNED 8	RO	2
	1h	COB-ID used by RxPDO	UNSIGNED 32	RW	C000 0000h
	2h	Transmission type	UNSIGNED 8	RW	---
...	...	...	...	...	...
1409h	0h	Number of entries	UNSIGNED 8	RO	2
	1h	COB-ID used by RxPDO	UNSIGNED 32	RW	C000 0000h
	2h	Transmission type	UNSIGNED 8	RW	---

Table 3-3 RxPDO communication object dictionary

Note: x is Node-ID of the module

RxPDO Mapping Communication Entry

Idx	Sidx	Description	Type	Attr	Default
1600h	0h	Number of entries	UNSIGNED 8	RW	4
	1h	DO channel 0 ~ 7	UNSIGNED 32	RW	6200 0108h
	2h	DO channel 8 ~15	UNSIGNED 32	RW	6200 0208h
	3h	DO channel 16~23	UNSIGNED 32	RW	6200 0308h
	4h	DO channel 24~31	UNSIGNED 32	RW	6200 0408h
1601h	0h	Number of entries	UNSIGNED 8	RW	0
...	...	...	...	...	...
1609h	0h	Number of entries	UNSIGNED 8	RW	0

Table 3-4 RxPDO mapping object dictionary

TxPDO Communication Entry

Idx	Sidx	Description	Type	Attr	Default
1800h	0h	Number of entries	UNSIGNED 8	RO	5
	1h	COB-ID used by TxPDO	UNSIGNED 32	RW	180h+x
	2h	Transmission type	UNSIGNED 8	RW	FFh
	3h	Inhibit time	UNSIGNED 16		0
	4h	reversed	---	---	---
	5h	Event timer	UNSIGNED 16		0
1801h	0h	Number of entries	UNSIGNED 8	RO	5
	1h	COB-ID used by TxPDO	UNSIGNED 32	RW	280h+x
	2h	Transmission type	UNSIGNED 8	RW	FFh
	3h	Inhibit time	UNSIGNED 16		0
	4h	reversed	---	---	---
	5h	Event timer	UNSIGNED 16		0
1802h	0h	Number of entries	UNSIGNED 8	RO	5
	1h	COB-ID used by TxPDO	UNSIGNED 32	RW	380h+x
	2h	Transmission type	UNSIGNED 8	RW	FFh
	3h	Inhibit time	UNSIGNED 16		0
	4h	reversed	---	---	---
	5h	Event timer	UNSIGNED 16		0
1803h	0h	Number of entries	UNSIGNED 8	RO	5
	1h	COB-ID used by TxPDO	UNSIGNED 32	RW	480h+x
	2h	Transmission type	UNSIGNED 8	RW	FFh
	3h	Inhibit time	UNSIGNED 16		0
	4h	reversed	---	---	---
	5h	Event timer	UNSIGNED 16		0

1804h	0h	Number of entries	UNSIGNED 8	RO	5
	1h	COB-ID used by TxPDO	UNSIGNED 32	RW	8000 0000h
	2h	Transmission type	UNSIGNED 8	RW	---
	3h	Inhibit time	UNSIGNED 16		0
	4h	reversed	---	---	---
	5h	Event timer	UNSIGNED 16		0
...	...	...	...	...	...
1809h	0h	Number of entries	UNSIGNED 8	RO	5
	1h	COB-ID used by TxPDO	UNSIGNED 32	RW	8000 0000h
	2h	Transmission type	UNSIGNED 8	RW	---
	3h	Inhibit time	UNSIGNED 16		0
	4h	reversed	---	---	---
	5h	Event timer	UNSIGNED 16		0

Table 3-5 TxPDO communication object dictionary

Note: x is Node-ID of the module

The unit of Inhibit time is 100us.

TxPDO Mapping Communication Entry

Idx	Sidx	Description	Type	Attr	Default
1A00h	0h	Number of entries	UNSIGNED 8	RW	0
...	...	...	...	...	...
1A09h	0h	Number of entries	UNSIGNED 8	RW	0

Table 3-6 RxPDO mapping object dictionary

Power On Value Function

Idx	Sidx	Description	Type	Attr	Default
2010h	0h	Number of Output 8-Bit	UNSIGNED 8	RO	4
	1h	Set DO power on value of ch0 ~ ch7	UNSIGNED 8	RW	0
	2h	Set DO power on value of ch8 ~ ch15	UNSIGNED 8	RW	0
	3h	Set DO power on value of ch16 ~ ch23	UNSIGNED 8	RW	0
	4h	Set DO power on value of ch24 ~ ch31	UNSIGNED 8	RW	0

Table 3-7 Manufacturer object dictionary

Digital Output Function

Idx	Sidx	Description	Type	Attr	Default
6200h	0h	Number of Output 8-Bit	UNSIGNED 8	RO	4
	1h	DO value of ch0 ~ ch7	UNSIGNED 8	RW	0
	2h	DO value of ch8 ~ ch15	UNSIGNED 8	RW	0
	3h	DO value of ch16 ~ ch23	UNSIGNED 8	RW	0
	4h	DO value of ch24 ~ ch31	UNSIGNED 8	RW	0
6202h	0h	Number of Output 8-Bit	UNSIGNED 8	RO	4
	1h	Change polarity DO ch0 ~ ch7	UNSIGNED 8	RW	0xFF
	2h	Change polarity DO ch8 ~ ch15	UNSIGNED 8	RW	0xFF
	3h	Change polarity DO ch16 ~ ch23	UNSIGNED 8	RW	0xFF
	4h	Change polarity DO ch24 ~ ch31	UNSIGNED 8	RW	0xFF
6206h	0h	Number of Output 8-Bit	UNSIGNED 8	RO	4
	1h	Error mode DO ch0 ~ ch7	UNSIGNED 8	RW	0xFF
	2h	Error mode DO ch8 ~ ch15	UNSIGNED 8	RW	0xFF
	3h	Error mode DO ch16 ~ ch23	UNSIGNED 8	RW	0xFF
	4h	Error mode DO ch24 ~ ch31	UNSIGNED 8	RW	0xFF
6207h	0h	Number of Output 8-Bit	UNSIGNED 8	RO	4
	1h	Error value DO ch0 ~ ch7	UNSIGNED 8	RW	0
	2h	Error value DO ch8 ~ ch15	UNSIGNED 8	RW	0
	3h	Error value DO ch16 ~ ch23	UNSIGNED 8	RW	0
	4h	Error value DO ch24 ~ ch31	UNSIGNED 8	RW	0

Table 3-8 Application object dictionary

3.2 Store and Restore Object

User can write the value 0x65766173 to the object index 0x1010 to save configuration setting, or write the value 0x64616F6C to object index 0x1011 to load the factory default. The following table lists the relative objects which will be stored or restored after writing these two objects. The factory default for these objects is also shown.

Store and Restore functions:

Index	Subindex	Function
1010 h	1	Store application and communication setting.
1010 h	2	Store communication setting only.
1010 h	3	Store application setting only.
1011 h	1	Restore application and communication setting.
1011 h	2	Restore communication setting only.
1011 h	3	Restore application setting only.

Table 3-9 Store and Restore object function

Communication Setting:

Please refer to above table 3-3, 3-4, 3-5, and 3-6.

Application Setting:

Index	SubIndex	Description	Default
2010 h	1	Set digital output power on value for channel 0 ~ 7	0x00
2010 h	2	Set digital output power on value for channel 8 ~ 15	0x00
2010 h	3	Set digital output power on value for channel 16 ~ 23	0x00
2010 h	4	Set digital output power on value for channel 24 ~ 31	0x00
2100 h	1	Set Module to Operation Mode when powering on	0x00
6202 h	1	Change polarity digital output for channel 0 ~ 7	0xFF
6202 h	2	Change polarity digital output for channel 8 ~ 15	0xFF
6202 h	3	Change polarity digital output for channel 16 ~ 23	0xFF
6202 h	4	Change polarity digital output for channel 24 ~ 31	0xFF
6206 h	1	Error mode digital output for channel 0 ~ 7	0xFF
6206 h	2	Error mode digital output for channel 8 ~ 15	0xFF
6206 h	3	Error mode digital output for channel 16 ~ 23	0xFF
6206 h	4	Error mode digital output for channel 24 ~ 31	0xFF
6207 h	1	Error value digital output for channel 0 ~ 7	0x00
6207 h	2	Error value digital output for channel 8 ~ 15	0x00
6207 h	3	Error value digital output for channel 16 ~ 23	0x00
6207 h	4	Error value digital output for channel 24 ~ 31	0x00

Table 3-10 Store and Restore the object list

3.3 Application Object

Digital Output module (0x6200)

User can set a group of 8 output lines as a byte of information and sent it into the object index 0x6200 with subindex 1 and 2 of CAN-2057C-32. For example, if the node id of CAN-2057C-32 is 1, the commands are as below:

11-bit COB-ID (bit)											RTR	Data Length	8-byte Data (byte)							
Func Code				Node ID									0	1	2	3	4	5	6	7
10	9	8	7	6	5	4	3	2	1	0										
1	1	0	0	0	0	0	0	0	0	1	0	8	2F	00	62	01	37	00	00	00

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**SDO server
(CAN-2057C-32)**

11-bit COB-ID (bit)											RTR	Data Length	8-byte Data (byte)							
Func Code				Node ID																
10	9	8	7	6	5	4	3	2	1	0			0	1	2	3	4	5	6	7
1	0	1	1	0	0	0	0	0	0	1	0	4	60	00	62	01	--	--	--	--

SDO client



**SDO server
(CAN-2057C-32)**

Write the 0x0F of digital output value into the object index 0x6200 with subindex 1, and its response success by CAN-2057C-32. The DO channels of DO5, DO4, DO2, DO1 and DO0 turn on and others are turn off.

Change Output Polarity (0x6202)

This object 0x6202 with subindex 1 and 2 define the polarity of a group of 8 output lines. Output polarity can be inverted individually.

1 = output inverted.

0 = output not inverted.

For example, if the node id of CAN-2057C-32 is 1, the commands are as below:

11-bit COB-ID (bit)											RTR	Data Length	8-byte Data (byte)							
Func Code				Node ID																
10	9	8	7	6	5	4	3	2	1	0			0	1	2	3	4	5	6	7
1	1	0	0	0	0	0	0	0	0	1	0	8	2F	02	62	01	F0	00	00	00

SDO client



**SDO server
(CAN-2057C-32)**

11-bit COB-ID (bit)											RTR	Data Length	8-byte Data (byte)							
Func Code				Node ID									0	1	2	3	4	5	6	7
10	9	8	7	6	5	4	3	2	1	0										
1	0	1	1	0	0	0	0	0	0	1	0	4	60	02	62	01	--	--	--	--

SDO client



**SDO server
(CAN-2057C-32)**

Write object index 0x6202 with subindex 1 to 0xF0 means that set the Ch0 ~ Ch3 of DO channels to be inverted, and set the Ch4 ~ Ch7 to normal.

Error Mode and Error Value (0x6206, 0x6207)

The object 0x6206 and 0x6207 are used to control the safe value when error happens. When some error event of this module happens such as node guarding failure, the module will check the value of the object 0x6206. If some bits of this value are set to 1, the corresponding DO channels will be into the error mode output. The error mode output values are concerned to the object 0x6207. For example, if the subindex 01 in the object with 0x6206 and 0x6207 are 0x31 and 0xF8 respectively, when some error event occurs, only the DO5, DO4, DO0 will be changed to error mode output because the bit 5, bit 4, and bit 0 of the value 0x31 is 1. The others channels keeps the status as the error event is not happened. The bit 5, bit 4, and bit 0 of the value 0xF8 are 1, 1 and 0, therefore the error mode output value of DO5, DO4 and DO0 are active, active, and inactive respectively.

11-bit COB-ID (bit)											RTR	Data Length	8-byte Data (byte)								
Func Code				Node ID																	
10	9	8	7	6	5	4	3	2	1	0			0	1	2	3	4	5	6	7	
1	1	0	0	0	0	0	0	0	0	1	0	8	2F	06	62	01	31	00	00	00	

SDO client



**SDO server
(CAN-2057C-32)**

11-bit COB-ID (bit)											RTR	Data Length	8-byte Data (byte)							
Func Code				Node ID																
10	9	8	7	6	5	4	3	2	1	0			0	1	2	3	4	5	6	7
1	0	1	1	0	0	0	0	0	0	1	0	8	60	06	62	01	--	--	--	

SDO client



**SDO server
(CAN-2057C-32)**

Write object index 0x6206 and subindex 1 to 0x31 means set the error mode to 0x31 for enabling the error mode output of DO 0, DO 4 and DO5.

11-bit COB-ID (bit)											RTR	Data Length	8-byte Data (byte)							
Func Code				Node ID																
10	9	8	7	6	5	4	3	2	1	0			0	1	2	3	4	5	6	7
1	1	0	0	0	0	0	0	0	0	1	0	8	2F	07	62	01	F8	00	00	00

SDO client



**SDO server
(CAN-2057C-32)**

11-bit COB-ID (bit)											RTR	Data Length	8-byte Data (byte)							
Func Code				Node ID																
10	9	8	7	6	5	4	3	2	1	0			0	1	2	3	4	5	6	7
1	0	1	1	0	0	0	0	0	0	1	0	8	60	07	62	01	--	--	--	--

SDO client



**SDO server
(CAN-2057C-32)**

Write object index 0x6207 and subindex 1 to 0xF8 means set the error value to 0xF8 for activating the error mode output value of DO 3 ~ DO 7. If the error event in this module, the module will output the safe value 0x30 (0x31 & 0xF8 = 0x30) corresponding the object 0x6206 and 0x6207.

Set Power On Value (0x2010)

This object 0x2010 with subindex 1 and 2 define the power on value of a group of 8 output lines. Power on value can be set individually.

For example, if the node id of CAN-2057C-32 is 1, the commands are as below:

11-bit COB-ID (bit)											RTR	Data Length	8-byte Data (byte)							
Func Code				Node ID																
10	9	8	7	6	5	4	3	2	1	0			0	1	2	3	4	5	6	7
1	1	0	0	0	0	0	0	0	0	1	0	8	2F	10	20	01	F0	00	00	00

SDO client



**SDO server
(CAN-2057C-32)**

11-bit COB-ID (bit)											RTR	Data Length	8-byte Data (byte)							
Func Code				Node ID																
10	9	8	7	6	5	4	3	2	1	0			0	1	2	3	4	5	6	7
1	0	1	1	0	0	0	0	0	0	1	0	4	60	10	20	01	--	--	--	--

SDO client



**SDO server
(CAN-2057C-32)**

Write object index 0x2010 with subindex 1 to 0xF0 means that set the Ch0 ~ Ch3 of DO channels to 0, and set the Ch4 ~ Ch7 to 1 when the CAN-2057C-32 power on.

Set Module to Operation Mode when powering on (0x2100)

This object 0x2100 with subindex 1 defines if the module will enter operation mode automatically when powering on.

For example, if the node id of CAN-2057C-32 is 1, the commands are as below:

11-bit COB-ID (bit)											RTR	Data Length	8-byte Data (byte)							
Func Code				Node ID																
10	9	8	7	6	5	4	3	2	1	0			0	1	2	3	4	5	6	7
1	1	0	0	0	0	0	0	0	0	1	0	8	2F	00	21	01	01	00	00	00

SDO client



**SDO server
(CAN-2057C-32)**

11-bit COB-ID (bit)											RTR	Data Length	8-byte Data (byte)							
Func Code				Node ID																
10	9	8	7	6	5	4	3	2	1	0			0	1	2	3	4	5	6	7
1	1	0	0	0	0	0	0	0	0	1	0	8	60	00	21	01	--	--	--	--

SDO client



**SDO server
(CAN-2057C-32)**

Write object index 0x2100 with subindex 1 to 0x01 then store the setting as below. Module will enter operation mode when powering on.

11-bit COB-ID (bit)											RTR	Data Length	8-byte Data (byte)							
Func Code				Node ID									0	1	2	3	4	5	6	7
10	9	8	7	6	5	4	3	2	1	0										
1	1	0	0	0	0	0	0	0	0	1	0	8	23	10	10	01	73	61	76	65

SDO client



**SDO server
(CAN-2057C-32)**

11-bit COB-ID (bit)											RTR	Data Length	8-byte Data (byte)							
Func Code				Node ID																
10	9	8	7	6	5	4	3	2	1	0			0	1	2	3	4	5	6	7
1	1	0	0	0	0	0	0	0	0	1	0	8	60	10	10	01	--	--	--	--

SDO client



**SDO server
(CAN-2057C-32)**

3.4 Default PDO Mapping

RxPDO mapping list:

ID	Len	D 0	D 1	D 2	D 3
0x200 + x	4	DO 0 ~ DO 7	DO 8 ~ DO 15	DO 16 ~ DO 23	DO 24 ~ DO 31

Table 3-11 Default RxPDO list

Note: x is Node-ID of the module