

## CANopenFD\_NXP\_SDK\_CiA401-BF

### Electronic Datasheet Information

Version 2, revision 2

CANopen Library for NXP SDK - CiA401-BF generic IO Example

Created by CANopen Architect Professional version 8.10.5839

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Provided by Embedded Systems Academy

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### Product Information

Property	Value
Vendor Name	NXP Semiconductors BV
Vendor ID	0xAF0002DC
Product Name	CANopen NXP CiA401-BF
Product Code	0xCODE0020
Revision Number	0x20200420
Order Code	CODE0020

### Commissioning Information

Property	Value
Node ID	0x03
Name	GenIO
Baudrate	500 kbps
Network Number	0
Network Name	
LSS Serial Number	0x00000000
CANopen Manager	No

### PDO Configuration

#### Communication Parameters

PDO	COBID	Tx Type	Inhibit Time	Event Time	Sync Start
RPDO1	\$NODEID+0x200	255			
RPDO2	\$NODEID+0x300	255			
TPDO1	\$NODEID+0x40000180	255	100.0 ms	250 ms	
TPDO2	\$NODEID+0x40000280	255	200.0 ms	500 ms	

#### Mappings

PDO	Mappings
RPDO1	[0x6200,0x01] Write State 8 Output Lines - DigOutput8_1 (Unsigned8) [0x6200,0x02] Write State 8 Output Lines - DigOutput8_2 (Unsigned8) [0x6200,0x03] Write State 8 Output Lines - DigOutput8_3 (Unsigned8) [0x6200,0x04] Write State 8 Output Lines - DigOutput8_4 (Unsigned8)

RPDO2	[0x6411,0x01]	Write Analog Output 16-bit - AnalogOutput16_1 (Integer16)
	[0x6411,0x02]	Write Analog Output 16-bit - AnalogOutput16_2 (Integer16)
TPDO1	[0x6000,0x01]	Read State 8 Input Lines - DigInput8_1 (Unsigned8)
	[0x6000,0x02]	Read State 8 Input Lines - DigInput8_2 (Unsigned8)
	[0x6000,0x03]	Read State 8 Input Lines - DigInput8_3 (Unsigned8)
	[0x6000,0x04]	Read State 8 Input Lines - DigInput8_4 (Unsigned8)
TPDO2	[0x6401,0x01]	Read Analog Input 16-bit - AnalogInput16_1 (Integer16)
	[0x6401,0x02]	Read Analog Input 16-bit - AnalogInput16_2 (Integer16)
	[0x6401,0x03]	Read Analog Input 16-bit - AnalogInput16_3 (Integer16)
	[0x6401,0x04]	Read Analog Input 16-bit - AnalogInput16_4 (Integer16)
	[0x6401,0x05]	Read Analog Input 16-bit - AnalogInput16_5 (Integer16)
	[0x6401,0x06]	Read Analog Input 16-bit - AnalogInput16_6 (Integer16)
	[0x6401,0x07]	Read Analog Input 16-bit - AnalogInput16_7 (Integer16)
	[0x6401,0x08]	Read Analog Input 16-bit - AnalogInput16_8 (Integer16)

## Object Dictionary

### Overview

Index	Subindex	Name	Type	Access	Default Value
0x0002	0x00	INTEGER8	I8	CO	
0x0003	0x00	INTEGER16	I16	CO	
0x0004	0x00	INTEGER32	I32	CO	
0x0005	0x00	UNSIGNED8	U8	CO	
0x0006	0x00	UNSIGNED16	U16	CO	
0x0007	0x00	UNSIGNED32	U32	CO	
0x1000	0x00	Device Type	U8	RO	0x01
	0x01	Device Type 1	U32	RO	0x000F0191
0x1001	0x00	Error Register	U8	CO	
0x1002	0x00	Manufacturer Status	U32	RO	
		Register			
0x1005	0x00	COB-ID SYNC	U32	CO	0x00000080
0x1008	0x00	Manufacturer Device Name	VisStr	RO	See description
0x1009	0x00	Manufacturer Hardware	VisStr	RO	See description
		Version			
0x100A	0x00	Manufacturer Software	VisStr	RO	See description
		Version			
0x1010	0x00	Store Parameters	U8	CO	0x04
	0x01	Save All Parameters	U32	RW	
	0x02	Save Communication	U32	RW	
		Parameters			
	0x03	Save Application	U32	RW	
0x1011	0x04	Parameters			
		Save Manufacturer	U32	RW	
	0x00	Parameters			
		Restore Parameters	U8	CO	0x04
		Save All Parameters	U32	RW	
	0x02	Restore Communication	U32	RW	
		Parameters			

	0x03	Restore Application Parameters	U32	RW	
	0x04	Restore Manufacturer Parameters	U32	RW	
0x1014	0x00	COB-ID EMCY	U32	CO	\$NODEID+0x80
0x1015	0x00	Inhibit Time Emergency	U16	CO	100
0x1016	0x00	Consumer Heartbeat Time	U8	CO	3
	0x01	Consumer Heartbeat Time 1	U32	RW	0x000103E8
	0x02	Consumer Heartbeat Time 2	U32	RW	0x00020000
	0x03	Consumer Heartbeat Time 3	U32	RW	0x00030000
0x1017	0x00	Producer Heartbeat Time	U16	RW	1000
0x1018	0x00	Identity Object	U8	CO	4
	0x01	Vendor ID	U32	CO	0xAF0002DC
	0x02	Product Code	U32	CO	0xC0DE0020
	0x03	Revision number	U32	CO	0x20200420
	0x04	Serial number	U32	CO	
0x1030	0x00	Version Information	U8	RO	2
	0x01	Version Information 1	U32	RO	0x51500100
	0x02	Version Information 2	U32	RO	0x19100300
0x1031	0x00	Active Error History	U8	CO	5
	0x01	Error History Status	U32	RO	
	0x02	Error History Command	U16	RW	0x0000
	0x03	Error History Command Input	U16	RW	0x0000
	0x04	Error History Domain	Dom	RO	See description
	0x05	Error History Processing	U32	RW	
0x1032	0x00	Active Error List	U8	RO	0
	0x01	Error Event 1	U32	RO	
	0x02	Error Event 2	U32	RO	
	0x03	Error Event 3	U32	RO	
	0x04	Error Event 4	U32	RO	
0x1400	0x00	Receive PDO Communication Parameter	U8	CO	2
	0x01	COB-ID	U32	RW	\$NODEID+0x200
	0x02	Transmission Type	U8	RW	255
0x1401	0x00	Receive PDO Communication Parameter	U8	CO	2
	0x01	COB-ID	U32	RW	\$NODEID+0x300
	0x02	Transmission Type	U8	RW	255
0x1600	0x00	Receive PDO Mapping Parameter	U8	CO	4
	0x01	PDO Mapping Entry	U32	CO	0x62000108
	0x02	PDO Mapping Entry	U32	CO	0x62000208
	0x03	PDO Mapping Entry	U32	CO	0x62000308
	0x04	PDO Mapping Entry	U32	CO	0x62000408

0x1601	0x00	Receive PDO Mapping Parameter	U8	CO	2
	0x01	PDO Mapping Entry	U32	CO	0x64110110
	0x02	PDO Mapping Entry	U32	CO	0x64110210
0x1800	0x00	Transmit PDO Communication Parameter	U8	CO	5
	0x01	COB-ID	U32	RW	\$NODEID+0x40000180
	0x02	Transmission Type	U8	RW	255
	0x03	Inhibit Time	U16	RW	1000
	0x05	Event Timer	U16	RW	250
0x1801	0x00	Transmit PDO Communication Parameter	U8	CO	5
	0x01	COB-ID	U32	RW	\$NODEID+0x40000280
	0x02	Transmission Type	U8	RW	255
	0x03	Inhibit Time	U16	RW	2000
	0x05	Event Timer	U16	RW	500
0x1A00	0x00	Transmit PDO Mapping Parameter	U8	CO	4
	0x01	PDO Mapping Entry	U32	CO	0x60000108
	0x02	PDO Mapping Entry	U32	CO	0x60000208
	0x03	PDO Mapping Entry	U32	CO	0x60000308
	0x04	PDO Mapping Entry	U32	CO	0x60000408
0x1A01	0x00	Transmit PDO Mapping Parameter	U8	CO	8
	0x01	PDO Mapping Entry	U32	CO	0x64010110
	0x02	PDO Mapping Entry	U32	CO	0x64010210
	0x03	Mapping 3	U32	CO	0x64010310
	0x04	Mapping 4	U32	CO	0x64010410
	0x05	Mapping 5	U32	CO	0x64010510
	0x06	Mapping 6	U32	CO	0x64010610
	0x07	Mapping 7	U32	CO	0x64010710
	0x08	Mapping 8	U32	CO	0x64010810
0x2010	0x00	128byte Buffer Segmentation Test	VisStr	RW	See description
0x5FFF	0x00	EmSA	VisStr	RO	See description
0x6000	0x00	Read State 8 Input Lines	U8	CO	4
	0x01	DigInput8_1	U8	RO	0x12
	0x02	DigInput8_2	U8	RO	0x23
	0x03	DigInput8_3	U8	RO	0x34
	0x04	DigInput8_4	U8	RO	0x45
0x6200	0x00	Write State 8 Output Lines	U8	CO	4
	0x01	DigOutput8_1	U8	RWW	
	0x02	DigOutput8_2	U8	RWW	
	0x03	DigOutput8_3	U8	RWW	
	0x04	DigOutput8_4	U8	RWW	
0x6401	0x00	Read Analog Input 16-bit	U8	CO	0x08
	0x01	AnalogInput16_1	I16	RO	0x1234
	0x02	AnalogInput16_2	I16	RO	0x2345

	0x03	AnalogInput16_3	I16	RO	0x3456
	0x04	AnalogInput16_4	I16	RO	0x4567
	0x05	AnalogInput16_5	I16	RO	0x5678
	0x06	AnalogInput16_6	I16	RO	0x6789
	0x07	AnalogInput16_7	I16	RO	0x789A
	0x08	AnalogInput16_8	I16	RO	0x89AB
0x6411	0x00	Write Analog Output 16-bit	U8	CO	2
	0x01	AnalogOutput16_1	I16	RWW	
	0x02	AnalogOutput16_2	I16	RWW	

#### Device Type (0x1000, CANopen FD only)

Subindex	0x00
Name	Highest Subindex
Data Type	Unsigned8
Access	ReadOnly
Can be mapped	No
Default Value	0x01

Only valid for CANopen FD. In CANopen, this entry is the Device Type described in the following entry [1000h,1].

Subindex	0x01
Name	Device Type 1
Data Type	Unsigned32
Access	ReadOnly
Can be mapped	No
Default Value	0x000F0191

Only valid for CANopen FD. In CANopen, this entry is at [1000h,0] and [1000h,1] doesn't exist. In the stack when using CANopen, a replacement entry has to be added to gODProcTable[] in user\_od.c after the auto-generated ones:

```
#if defined(P100001_Device_Type_1)
// Special entry to deliver CANopen-style object [1000h,0]
ODENTRY(0x1000, 0x00, 4 + ODRD, P100001_Device_Type_1),
#endif
```

#### Error Register (0x1001)

Subindex	0x00
Data Type	Unsigned8
Access	Const
Can be mapped	No
Default Value	

#### Manufacturer Status Register (0x1002)

Subindex	0x00
Data Type	Unsigned32
Access	ReadOnly
Can be mapped	No

Default Value

#### COB-ID SYNC (0x1005)

Subindex	0x00
Data Type	Unsigned32
Access	Const
Can be mapped	No
Default Value	0x00000080

#### Manufacturer Device Name (0x1008)

Subindex	0x00
Data Type	Visible String
Access	ReadOnly
Can be mapped	No
Default Value	CANopenLibNXPSDK CiA401 Example

#### Manufacturer Hardware Version (0x1009)

Subindex	0x00
Data Type	Visible String
Access	ReadOnly
Can be mapped	No
Default Value	Some NXP Evalboard

#### Manufacturer Software Version (0x100A)

Subindex	0x00
Data Type	Visible String
Access	ReadOnly
Can be mapped	No
Default Value	EmSA MCOP 7.0 2019-09-25

#### Store Parameters (0x1010)

Subindex	0x00
Name	Number of Entries
Data Type	Unsigned8
Access	Const
Can be mapped	No
Default Value	0x04

Subindex	0x01
Name	Save All Parameters
Data Type	Unsigned32
Access	ReadWrite
Can be mapped	No
Default Value	

Subindex	0x02
Name	Save Communication Parameters
Data Type	Unsigned32
Access	ReadWrite

Can be mapped  
Default Value

No

Subindex  
Name  
Data Type  
Access  
Can be mapped  
Default Value

0x03  
Save Application Parameters  
Unsigned32  
ReadWrite  
No

Subindex  
Name  
Data Type  
Access  
Can be mapped  
Default Value

0x04  
Save Manufacturer Parameters  
Unsigned32  
ReadWrite  
No

#### Restore Parameters (0x1011)

Subindex  
Name  
Data Type  
Access  
Can be mapped  
Default Value

0x00  
Number of Entries  
Unsigned8  
Const  
No  
0x04

Subindex  
Name  
Data Type  
Access  
Can be mapped  
Default Value

0x01  
Save All Parameters  
Unsigned32  
ReadWrite  
No

Subindex  
Name  
Data Type  
Access  
Can be mapped  
Default Value

0x02  
Restore Communication Parameters  
Unsigned32  
ReadWrite  
No

Subindex  
Name  
Data Type  
Access  
Can be mapped  
Default Value

0x03  
Restore Application Parameters  
Unsigned32  
ReadWrite  
No

Subindex  
Name

0x04  
Restore Manufacturer Parameters

Data Type	Unsigned32
Access	ReadWrite
Can be mapped	No
Default Value	

#### COB-ID EMCY (0x1014)

Subindex	0x00
Data Type	Unsigned32
Access	Const
Can be mapped	No
Default Value	\$NODEID+0x80

#### Inhibit Time Emergency (0x1015)

Subindex	0x00
Data Type	Unsigned16
Access	Const
Can be mapped	No
Default Value	100

#### Consumer Heartbeat Time (0x1016)

Subindex	0x00
Name	Number of Entries
Data Type	Unsigned8
Access	Const
Can be mapped	No
Default Value	3

Subindex	0x01
Name	Consumer Heartbeat Time 1
Data Type	Unsigned32
Access	ReadWrite
Can be mapped	No
Default Value	0x000103E8

Subindex	0x02
Name	Consumer Heartbeat Time 2
Data Type	Unsigned32
Access	ReadWrite
Can be mapped	No
Default Value	0x00020000

Subindex	0x03
Name	Consumer Heartbeat Time 3
Data Type	Unsigned32
Access	ReadWrite
Can be mapped	No
Default Value	0x00030000



### Producer Heartbeat Time (0x1017)

Subindex	0x00
Data Type	Unsigned16
Access	ReadWrite
Can be mapped	No
Default Value	1000

Note that CiA 401 sets the default to 0 and thereby disables heartbeat. In order to have a periodic transmission from the node right after initialization, this is changed to 1000 ms. This allows an easy verification that CAN is working and the stack is running, even before any interaction with a CANopen manager.

### Identity Object (0x1018)

Subindex	0x00
Name	number of entries
Data Type	Unsigned8
Access	Const
Can be mapped	No
Default Value	4

Subindex	0x01
Name	Vendor ID
Data Type	Unsigned32
Access	Const
Can be mapped	No
Default Value	0xAF0002DC

Subindex	0x02
Name	Product Code
Data Type	Unsigned32
Access	Const
Can be mapped	No
Default Value	0xC0DE0020

Subindex	0x03
Name	Revision number
Data Type	Unsigned32
Access	Const
Can be mapped	No
Default Value	0x20200420

Subindex	0x04
Name	Serial number
Data Type	Unsigned32
Access	Const
Can be mapped	No
Default Value	

#### Version Information (0x1030, CANopen FD only)

Subindex	0x00
Name	Highest Subindex
Data Type	Unsigned8
Access	ReadOnly
Can be mapped	No
Default Value	2

Subindex	0x01
Name	Version Information 1
Data Type	Unsigned32
Access	ReadOnly
Can be mapped	No
Default Value	0x51500100

Subindex	0x02
Name	Version Information 2
Data Type	Unsigned32
Access	ReadOnly
Can be mapped	No
Default Value	0x19100300

#### Active Error History (0x1031, CANopen FD only)

Subindex	0x00
Name	Highest Subindex
Data Type	Unsigned8
Access	Const
Can be mapped	No
Default Value	5

Subindex	0x01
Name	Error History Status
Data Type	Unsigned32
Access	ReadOnly
Can be mapped	No
Default Value	

Subindex	0x02
Name	Error History Command
Data Type	Unsigned16
Access	ReadWrite
Can be mapped	No
Default Value	0x0000

Subindex	0x03
Name	Error History Command Input
Data Type	Unsigned16
Access	ReadWrite

Can be mapped	No
Default Value	0x0000

Subindex	0x04
Name	Error History Domain
Data Type	Domain
Access	ReadOnly
Can be mapped	No
Default Value	

Subindex	0x05
Name	Error History Processing
Data Type	Unsigned32
Access	ReadWrite
Can be mapped	No
Default Value	

#### Active Error List (0x1032, CANopen FD only)

Subindex	0x00
Name	Highest Subindex
Data Type	Unsigned8
Access	ReadOnly
Can be mapped	No
Default Value	0

Subindex	0x01
Name	Error Event 1
Data Type	Unsigned32
Access	ReadOnly
Can be mapped	No
Default Value	

Subindex	0x02
Name	Error Event 2
Data Type	Unsigned32
Access	ReadOnly
Can be mapped	No
Default Value	

Subindex	0x03
Name	Error Event 3
Data Type	Unsigned32
Access	ReadOnly
Can be mapped	No
Default Value	

Subindex	0x04
Name	Error Event 4

Data Type	Unsigned32
Access	ReadOnly
Can be mapped	No
Default Value	

#### Receive PDO Communication Parameter (0x1400)

Subindex	0x00
Name	Number of Entries
Data Type	Unsigned8
Access	Const
Can be mapped	No
Default Value	2

Subindex	0x01
Name	COB-ID
Data Type	Unsigned32
Access	ReadWrite
Can be mapped	No
Default Value	\$NODEID+0x200

Subindex	0x02
Name	Transmission Type
Data Type	Unsigned8
Access	ReadWrite
Can be mapped	No
Default Value	255

#### Receive PDO Communication Parameter (0x1401)

Subindex	0x00
Name	Number of Entries
Data Type	Unsigned8
Access	Const
Can be mapped	No
Default Value	2

Subindex	0x01
Name	COB-ID
Data Type	Unsigned32
Access	ReadWrite
Can be mapped	No
Default Value	\$NODEID+0x300

Subindex	0x02
Name	Transmission Type
Data Type	Unsigned8
Access	ReadWrite
Can be mapped	No
Default Value	255

#### Receive PDO Mapping Parameter (0x1600)

Subindex	0x00
Name	Number of Entries
Data Type	Unsigned8
Access	Const
Can be mapped	No
Default Value	4
Subindex	0x01
Name	PDO Mapping Entry
Data Type	Unsigned32
Access	Const
Can be mapped	No
Default Value	0x62000108 [0x6200,0x01] Write State 8 Output Lines - DigOutput8_1 (Unsigned8)
Subindex	0x02
Name	PDO Mapping Entry
Data Type	Unsigned32
Access	Const
Can be mapped	No
Default Value	0x62000208 [0x6200,0x02] Write State 8 Output Lines - DigOutput8_2 (Unsigned8)
Subindex	0x03
Name	PDO Mapping Entry
Data Type	Unsigned32
Access	Const
Can be mapped	No
Default Value	0x62000308 [0x6200,0x03] Write State 8 Output Lines - DigOutput8_3 (Unsigned8)
Subindex	0x04
Name	PDO Mapping Entry
Data Type	Unsigned32
Access	Const
Can be mapped	No
Default Value	0x62000408 [0x6200,0x04] Write State 8 Output Lines - DigOutput8_4 (Unsigned8)

#### Receive PDO Mapping Parameter (0x1601)

Subindex	0x00
Name	Number of Entries
Data Type	Unsigned8
Access	Const
Can be mapped	No
Default Value	2

Subindex	0x01
Name	PDO Mapping Entry
Data Type	Unsigned32
Access	Const
Can be mapped	No
Default Value	0x64110110 [0x6411,0x01] Write Analog Output 16-bit - AnalogOutput16_1 (Integer16)

Subindex	0x02
Name	PDO Mapping Entry
Data Type	Unsigned32
Access	Const
Can be mapped	No
Default Value	0x64110210 [0x6411,0x02] Write Analog Output 16-bit - AnalogOutput16_2 (Integer16)

#### Transmit PDO Communication Parameter (0x1800)

Subindex	0x00
Name	Number of Entries
Data Type	Unsigned8
Access	Const
Can be mapped	No
Default Value	5

Subindex	0x01
Name	COB-ID
Data Type	Unsigned32
Access	ReadWrite
Can be mapped	No
Default Value	\$NODEID+0x40000180

Subindex	0x02
Name	Transmission Type
Data Type	Unsigned8
Access	ReadWrite
Can be mapped	No
Default Value	255

Subindex	0x03
Name	Inhibit Time
Data Type	Unsigned16
Access	ReadWrite
Can be mapped	No
Default Value	1000

Subindex	0x05
Name	Event Timer
Data Type	Unsigned16

Access	ReadWrite
Can be mapped	No
Default Value	250

#### Transmit PDO Communication Parameter (0x1801)

Subindex	0x00
Name	Number of Entries
Data Type	Unsigned8
Access	Const
Can be mapped	No
Default Value	5

Subindex	0x01
Name	COB-ID
Data Type	Unsigned32
Access	ReadWrite
Can be mapped	No
Default Value	\$NODEID+0x40000280

Subindex	0x02
Name	Transmission Type
Data Type	Unsigned8
Access	ReadWrite
Can be mapped	No
Default Value	255

Subindex	0x03
Name	Inhibit Time
Data Type	Unsigned16
Access	ReadWrite
Can be mapped	No
Default Value	2000

Subindex	0x05
Name	Event Timer
Data Type	Unsigned16
Access	ReadWrite
Can be mapped	No
Default Value	500

#### Transmit PDO Mapping Parameter (0x1A00)

Subindex	0x00
Name	Number of Entries
Data Type	Unsigned8
Access	Const
Can be mapped	No
Default Value	4

Subindex	0x01
Name	PDO Mapping Entry
Data Type	Unsigned32
Access	Const
Can be mapped	No
Default Value	0x60000108 [0x6000,0x01] Read State 8 Input Lines - DigInput8_1 (Unsigned8)

Subindex	0x02
Name	PDO Mapping Entry
Data Type	Unsigned32
Access	Const
Can be mapped	No
Default Value	0x60000208 [0x6000,0x02] Read State 8 Input Lines - DigInput8_2 (Unsigned8)

Subindex	0x03
Name	PDO Mapping Entry
Data Type	Unsigned32
Access	Const
Can be mapped	No
Default Value	0x60000308 [0x6000,0x03] Read State 8 Input Lines - DigInput8_3 (Unsigned8)

Subindex	0x04
Name	PDO Mapping Entry
Data Type	Unsigned32
Access	Const
Can be mapped	No
Default Value	0x60000408 [0x6000,0x04] Read State 8 Input Lines - DigInput8_4 (Unsigned8)

#### Transmit PDO Mapping Parameter (0x1A01)

Subindex	0x00
Name	Number of Entries
Data Type	Unsigned8
Access	Const
Can be mapped	No
Default Value	8

Subindex	0x01
Name	PDO Mapping Entry
Data Type	Unsigned32
Access	Const
Can be mapped	No
Default Value	0x64010110 [0x6401,0x01] Read Analog Input 16-bit - AnalogInput16_1 (Integer16)



Subindex	0x02
Name	PDO Mapping Entry
Data Type	Unsigned32
Access	Const
Can be mapped	No
Default Value	0x64010210 [0x6401,0x02] Read Analog Input 16-bit - AnalogInput16_2 (Integer16)

Subindex	0x03
Name	Mapping 3
Data Type	Unsigned32
Access	Const
Can be mapped	No
Default Value	0x64010310 [0x6401,0x03] Read Analog Input 16-bit - AnalogInput16_3 (Integer16)

Subindex	0x04
Name	Mapping 4
Data Type	Unsigned32
Access	Const
Can be mapped	No
Default Value	0x64010410 [0x6401,0x04] Read Analog Input 16-bit - AnalogInput16_4 (Integer16)

Subindex	0x05
Name	Mapping 5
Data Type	Unsigned32
Access	Const
Can be mapped	No
Default Value	0x64010510 [0x6401,0x05] Read Analog Input 16-bit - AnalogInput16_5 (Integer16)

Subindex	0x06
Name	Mapping 6
Data Type	Unsigned32
Access	Const
Can be mapped	No
Default Value	0x64010610 [0x6401,0x06] Read Analog Input 16-bit - AnalogInput16_6 (Integer16)

Subindex	0x07
Name	Mapping 7
Data Type	Unsigned32
Access	Const
Can be mapped	No
Default Value	0x64010710 [0x6401,0x07] Read Analog Input 16-bit - AnalogInput16_7 (Integer16)

Subindex	0x08
Name	Mapping 8
Data Type	Unsigned32
Access	Const
Can be mapped	No
Default Value	0x64010810 [0x6401,0x08] Read Analog Input 16-bit - AnalogInput16_8 (Integer16)

#### 128byte Buffer Segmentation Test (0x2010)

Subindex	0x00
Data Type	Visible String
Access	ReadWrite
Can be mapped	No
Default Value	This is a 128 byte long test string for the NXP MCUXpresso SDK Micro CANopen FD demo by Embedded Systems Academy ( <a href="http://www.em-sa.com">www.em-sa.com</a> )

#### EmSA (0x5FFF)

Subindex	0x00
Data Type	Visible String
Access	ReadOnly
Can be mapped	No
Default Value	EmSA <a href="http://www.em-sa.com">www.em-sa.com</a> , CANopen Architect Mini

#### Read State 8 Input Lines (0x6000)

Subindex	0x00
Name	Number of Elements
Data Type	Unsigned8
Access	Const
Can be mapped	No
Default Value	4

Subindex	0x01
Name	DigInput8_1
Data Type	Unsigned8
Access	ReadOnly
Can be mapped	Yes
Default Value	0x12

Subindex	0x02
Name	DigInput8_2
Data Type	Unsigned8
Access	ReadOnly
Can be mapped	Yes
Default Value	0x23

Subindex	0x03
Name	DigInput8_3
Data Type	Unsigned8
Access	ReadOnly

Can be mapped	Yes
Default Value	0x34

Subindex	0x04
Name	DigInput8_4
Data Type	Unsigned8
Access	ReadOnly
Can be mapped	Yes
Default Value	0x45

#### Write State 8 Output Lines (0x6200)

Subindex	0x00
Name	Number of Elements
Data Type	Unsigned8
Access	Const
Can be mapped	No
Default Value	4

Subindex	0x01
Name	DigOutput8_1
Data Type	Unsigned8
Access	ReadWriteWrite
Can be mapped	Yes
Default Value	

Subindex	0x02
Name	DigOutput8_2
Data Type	Unsigned8
Access	ReadWriteWrite
Can be mapped	Yes
Default Value	

Subindex	0x03
Name	DigOutput8_3
Data Type	Unsigned8
Access	ReadWriteWrite
Can be mapped	Yes
Default Value	

Subindex	0x04
Name	DigOutput8_4
Data Type	Unsigned8
Access	ReadWriteWrite
Can be mapped	Yes
Default Value	

#### Read Analog Input 16-bit (0x6401)

Subindex	0x00
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Name	Number of Elements
Data Type	Unsigned8
Access	Const
Can be mapped	No
Default Value	0x08

Subindex	0x01
Name	AnalogInput16_1
Data Type	Integer16
Access	ReadOnly
Can be mapped	Yes
Default Value	0x1234

Subindex	0x02
Name	AnalogInput16_2
Data Type	Integer16
Access	ReadOnly
Can be mapped	Yes
Default Value	0x2345

Subindex	0x03
Name	AnalogInput16_3
Data Type	Integer16
Access	ReadOnly
Can be mapped	Yes
Default Value	0x3456

Subindex	0x04
Name	AnalogInput16_4
Data Type	Integer16
Access	ReadOnly
Can be mapped	Yes
Default Value	0x4567

Subindex	0x05
Name	AnalogInput16_5
Data Type	Integer16
Access	ReadOnly
Can be mapped	Yes
Default Value	0x5678

Subindex	0x06
Name	AnalogInput16_6
Data Type	Integer16
Access	ReadOnly
Can be mapped	Yes
Default Value	0x6789

Subindex	0x07
Name	AnalogInput16_7
Data Type	Integer16
Access	ReadOnly
Can be mapped	Yes
Default Value	0x789A

Subindex	0x08
Name	AnalogInput16_8
Data Type	Integer16
Access	ReadOnly
Can be mapped	Yes
Default Value	0x89AB

#### Write Analog Output 16-bit (0x6411)

Subindex	0x00
Name	Number of Elements
Data Type	Unsigned8
Access	Const
Can be mapped	No
Default Value	2

Subindex	0x01
Name	AnalogOutput16_1
Data Type	Integer16
Access	ReadWriteWrite
Can be mapped	Yes
Default Value	

Subindex	0x02
Name	AnalogOutput16_2
Data Type	Integer16
Access	ReadWriteWrite
Can be mapped	Yes
Default Value	