# CANopenFDNXPSDK\_Mgr

## Electronic Datasheet Information

Version 2, revision 2  
CANopen FD Library for NXP SDK - Manager Example  
Created by CANopen Architect Professional version 9.10.5971  
Created on 09-25-2019, 07:34PM by Pf  
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## Product Information

|  |  |
| --- | --- |
| Property | Value |
| Vendor Name | NXP Semiconductors BV |
| Vendor ID | 0xAF0002DC |
| Product Name | CANopen FD NXP CiA 401 Manager |
| Product Code | 0xC0DE0002 |
| Revision Number | 0x20201014 |
| Order Code | C0DE0002 |

## Commissioning Information

|  |  |
| --- | --- |
| Property | Value |
| Node ID | 0x01 |
| Name | CANopenFDMgr |
| Baudrate | 500 kbps |
| Network Number | 0 |
| Network Name |  |
| LSS Serial Number | 0x00000000 |
| CANopen Manager | Yes |

## PDO Configuration

### Communication Parameters

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| PDO | COBID | Tx Type | Inhibit Time | Event Time | Sync Start |
| RPDO1 | $NODEID+0x80000200 | 255 |  |  |  |
| RPDO2 | $NODEID+0x80000300 | 255 |  |  |  |
| TPDO1 | $NODEID+0xC0000180 | 255 | 100.0 ms | 500 ms | 0 |
| TPDO2 | $NODEID+0xC0000280 | 255 | 250.0 ms | 1000 ms | 0 |

### 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) |
| [0x6411,0x03] Write Analog Output 16-bit - AnalogOutput16\_3 (Integer16) |
| [0x6411,0x04] Write Analog Output 16-bit - AnalogOutput16\_4 (Integer16) |
| [0x6411,0x05] Write Analog Output 16-bit - AnalogOutput16\_5 (Integer16) |
| [0x6411,0x06] Write Analog Output 16-bit - AnalogOutput16\_6 (Integer16) |
| [0x6411,0x07] Write Analog Output 16-bit - AnalogOutput16\_7 (Integer16) |
| [0x6411,0x08] Write Analog Output 16-bit - AnalogOutput16\_8 (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) |

## 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 | 0x00000000 |
| 0x1001 | 0x00 | Error Register | U8 | RO |  |
| 0x1005 | 0x00 | COB-ID SYNC | U32 | RO | 0x00000080 |
| 0x1006 | 0x00 | SYNC Communication cycle time | U32 | RW | 0 |
| 0x1008 | 0x00 | Manufacturer Device Name | VisStr | RO | See description |
| 0x1010 | 0x00 | Store Parameters | U8 | RO | 0x04 |
| 0x01 | Save All Parameters | U32 | RW |  |
| 0x02 | Save Communication Parameters | U32 | RW |  |
| 0x03 | Save Application Parameters | U32 | RW |  |
| 0x04 | Save Manufacturer Parameters | U32 | RW |  |
| 0x1014 | 0x00 | COB-ID EMCY | U32 | RO | $NODEID+0x80 |
| 0x1015 | 0x00 | Inhibit Time Emergency | U16 | CO | 100 |
| 0x1016 | 0x00 | Consumer Heartbeat Time | U8 | CO | 0x0A |
| 0x01 | Consumer HB Time | U32 | RW | 0x000108CA |
| 0x02 | Consumer HB Time | U32 | RW | 0x000208CA |
| 0x03 | Consumer HB Time | U32 | RW | 0x000308CA |
| 0x04 | Consumer HB Time | U32 | RW | 0x000408CA |
| 0x05 | Consumer HB Time | U32 | RW | 0x000508CA |
| 0x06 | Consumer HB Time | U32 | RW | 0x000608CA |
| 0x07 | Consumer HB Time | U32 | RW | 0x000708CA |
| 0x08 | Consumer HB Time | U32 | RW | 0x000808CA |
| 0x09 | Consumer HB Time | U32 | RW | 0x000908CA |
| 0x0A | Consumer HB Time | U32 | RW | 0x000A08CA |
| 0x1017 | 0x00 | Producer Heartbeat Time | U16 | RW | 333 |
| 0x1018 | 0x00 | Identity Object | U8 | CO | 4 |
| 0x01 | Vendor Id | U32 | CO | 0xAF0002DC |
| 0x02 | Product Code | U32 | CO | 0xC0DE0002 |
| 0x03 | Revision number | U32 | CO | 0x20201014 |
| 0x04 | Serial Number | U32 | CO |  |
| 0x1019 | 0x00 | SYNC counter overflow value | U8 | RW | 0 |
| 0x1030 | 0x00 | Version Information | U8 | CO | 0x02 |
| 0x01 | Version Information 1 | U32 | RO | 0x51500100 |
| 0x02 | Version Information 2 | U32 | RO | 0x19100300 |
| 0x1031 | 0x00 | Active Error History | U8 | CO | 0x05 |
| 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 | CO | 0x04 |
| 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 | RO | 2 |
| 0x01 | COB-ID | U32 | RW | $NODEID+0x80000200 |
| 0x02 | Transmission Type | U8 | RW | 255 |
| 0x1401 | 0x00 | Receive PDO Communication Parameter | U8 | RO | 2 |
| 0x01 | COB-ID | U32 | RW | $NODEID+0x80000300 |
| 0x02 | Transmission Type | U8 | RW | 255 |
| 0x1600 | 0x00 | Receive PDO Mapping Parameter | U8 | CO | 0x04 |
| 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 | 8 |
| 0x01 | PDO Mapping Entry | U32 | CO | 0x64110110 |
| 0x02 | PDO Mapping Entry | U32 | CO | 0x64110210 |
| 0x03 | PDO Mapping Entry | U32 | CO | 0x64110310 |
| 0x04 | PDO Mapping Entry | U32 | CO | 0x64110410 |
| 0x05 | PDO Mapping Entry | U32 | CO | 0x64110510 |
| 0x06 | PDO Mapping Entry | U32 | CO | 0x64110610 |
| 0x07 | PDO Mapping Entry | U32 | CO | 0x64110710 |
| 0x08 | PDO Mapping Entry | U32 | CO | 0x64110810 |
| 0x1800 | 0x00 | Transmit PDO Communication Parameter | U8 | CO | 6 |
| 0x01 | COB-ID | U32 | RW | $NODEID+0xC0000180 |
| 0x02 | Transmission Type | U8 | RW | 255 |
| 0x03 | Inhibit Time | U16 | RW | 1000 |
| 0x05 | Event Timer | U16 | RW | 500 |
| 0x06 | Sync Start Value | U8 | RW | 0 |
| 0x1801 | 0x00 | Transmit PDO Communication Parameter | U8 | CO | 6 |
| 0x01 | COB-ID | U32 | RW | $NODEID+0xC0000280 |
| 0x02 | Transmission Type | U8 | RW | 255 |
| 0x03 | Inhibit Time | U16 | RW | 2500 |
| 0x05 | Event Timer | U16 | RW | 1000 |
| 0x06 | Sync Start Value | U8 | RW | 0 |
| 0x1A00 | 0x00 | Transmit PDO Mapping Parameter | U8 | CO | 0x04 |
| 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 | 2 |
| 0x01 | PDO Mapping Entry | U32 | CO | 0x64010110 |
| 0x02 | PDO Mapping Entry | U32 | CO | 0x64010210 |
| 0x5FFF | 0x00 | EmSA - EmSA | VisStr | RO | See description |
| 0x6000 | 0x00 | Read State 8 Input Lines | U8 | RO | 8 |
| 0x01 | DigInput8\_1 | U8 | RO |  |
| 0x02 | DigInput8\_2 | U8 | RO |  |
| 0x03 | DigInput8\_3 | U8 | RO |  |
| 0x04 | DigInput8\_4 | U8 | RO |  |
| 0x05 | DigInput8\_5 | U8 | RO |  |
| 0x06 | DigInput8\_6 | U8 | RO |  |
| 0x07 | DigInput8\_7 | U8 | RO |  |
| 0x08 | DigInput8\_8 | U8 | RO |  |
| 0x6200 | 0x00 | Write State 8 Output Lines | U8 | RO | 8 |
| 0x01 | DigOutput8\_1 | U8 | RWW |  |
| 0x02 | DigOutput8\_2 | U8 | RWW |  |
| 0x03 | DigOutput8\_3 | U8 | RWW |  |
| 0x04 | DigOutput8\_4 | U8 | RWW |  |
| 0x05 | DigOutput8\_5 | U8 | RWW |  |
| 0x06 | DigOutput8\_6 | U8 | RWW |  |
| 0x07 | DigOutput8\_7 | U8 | RWW |  |
| 0x08 | DigOutput8\_8 | U8 | RWW |  |
| 0x6401 | 0x00 | Read Analog Input 16-bit | U8 | RO | 2 |
| 0x01 | AnalogInput16\_1 | I16 | RO |  |
| 0x02 | AnalogInput16\_2 | I16 | RO |  |
| 0x6411 | 0x00 | Write Analog Output 16-bit | U8 | CO | 0x08 |
| 0x01 | AnalogOutput16\_1 | I16 | RWW |  |
| 0x02 | AnalogOutput16\_2 | I16 | RWW |  |
| 0x03 | AnalogOutput16\_3 | I16 | RWW |  |
| 0x04 | AnalogOutput16\_4 | I16 | RWW |  |
| 0x05 | AnalogOutput16\_5 | I16 | RWW |  |
| 0x06 | AnalogOutput16\_6 | I16 | RWW |  |
| 0x07 | AnalogOutput16\_7 | I16 | RWW |  |
| 0x08 | AnalogOutput16\_8 | I16 | RWW |  |

### Device Type (0x1000)

|  |  |
| --- | --- |
| 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 | 0x00000000 |
|  |  |

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 | ReadOnly |
| Can be mapped | No |
|  |  |

### COB-ID SYNC (0x1005)

|  |  |
| --- | --- |
| Subindex | 0x00 |
| Data Type | Unsigned32 |
| Access | ReadOnly |
| Can be mapped | No |
| Default Value | 0x00000080 |
|  |  |

### SYNC Communication cycle time (0x1006)

|  |  |
| --- | --- |
| Subindex | 0x00 |
| Data Type | Unsigned32 |
| Access | ReadWrite |
| Can be mapped | No |
| Default Value | 0 |
|  |  |

### Manufacturer Device Name (0x1008)

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

### Store Parameters (0x1010)

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

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

|  |  |
| --- | --- |
| Subindex | 0x02 |
| Name | Save Communication Parameters |
| Data Type | Unsigned32 |
| Access | ReadWrite |
| Can be mapped | No |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x03 |
| Name | Save Application Parameters |
| Data Type | Unsigned32 |
| Access | ReadWrite |
| Can be mapped | No |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x04 |
| Name | Save Manufacturer Parameters |
| Data Type | Unsigned32 |
| Access | ReadWrite |
| Can be mapped | No |
|  |  |

### COB-ID EMCY (0x1014)

|  |  |
| --- | --- |
| Subindex | 0x00 |
| Data Type | Unsigned32 |
| Access | ReadOnly |
| 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 | Highest Subindex |
| Data Type | Unsigned8 |
| Access | Const |
| Can be mapped | No |
| Default Value | 0x0A |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x01 |
| Name | Consumer HB Time |
| Data Type | Unsigned32 |
| Access | ReadWrite |
| Can be mapped | No |
| Default Value | 0x000108CA |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x02 |
| Name | Consumer HB Time |
| Data Type | Unsigned32 |
| Access | ReadWrite |
| Can be mapped | No |
| Default Value | 0x000208CA |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x03 |
| Name | Consumer HB Time |
| Data Type | Unsigned32 |
| Access | ReadWrite |
| Can be mapped | No |
| Default Value | 0x000308CA |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x04 |
| Name | Consumer HB Time |
| Data Type | Unsigned32 |
| Access | ReadWrite |
| Can be mapped | No |
| Default Value | 0x000408CA |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x05 |
| Name | Consumer HB Time |
| Data Type | Unsigned32 |
| Access | ReadWrite |
| Can be mapped | No |
| Default Value | 0x000508CA |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x06 |
| Name | Consumer HB Time |
| Data Type | Unsigned32 |
| Access | ReadWrite |
| Can be mapped | No |
| Default Value | 0x000608CA |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x07 |
| Name | Consumer HB Time |
| Data Type | Unsigned32 |
| Access | ReadWrite |
| Can be mapped | No |
| Default Value | 0x000708CA |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x08 |
| Name | Consumer HB Time |
| Data Type | Unsigned32 |
| Access | ReadWrite |
| Can be mapped | No |
| Default Value | 0x000808CA |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x09 |
| Name | Consumer HB Time |
| Data Type | Unsigned32 |
| Access | ReadWrite |
| Can be mapped | No |
| Default Value | 0x000908CA |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x0A |
| Name | Consumer HB Time |
| Data Type | Unsigned32 |
| Access | ReadWrite |
| Can be mapped | No |
| Default Value | 0x000A08CA |
|  |  |

### Producer Heartbeat Time (0x1017)

|  |  |
| --- | --- |
| Subindex | 0x00 |
| Data Type | Unsigned16 |
| Access | ReadWrite |
| Can be mapped | No |
| Default Value | 333 |
|  |  |

### Identity Object (0x1018)

|  |  |
| --- | --- |
| Subindex | 0x00 |
| Name | number of entries |
| Data Type | Unsigned8 |
| Access | Const |
| Can be mapped | No |
| Default Value | 4 |
| Low Limit | 1 |
| High Limit | 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 | 0xC0DE0002 |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x03 |
| Name | Revision number |
| Data Type | Unsigned32 |
| Access | Const |
| Can be mapped | No |
| Default Value | 0x20201014 |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x04 |
| Name | Serial Number |
| Data Type | Unsigned32 |
| Access | Const |
| Can be mapped | No |
|  |  |

### SYNC counter overflow value (0x1019)

|  |  |
| --- | --- |
| Subindex | 0x00 |
| Data Type | Unsigned8 |
| Access | ReadWrite |
| Can be mapped | No |
| Default Value | 0 |
|  |  |

### Version Information (0x1030)

|  |  |
| --- | --- |
| Subindex | 0x00 |
| Name | Highest Subindex |
| Data Type | Unsigned8 |
| Access | Const |
| Can be mapped | No |
| Default Value | 0x02 |
|  |  |

|  |  |
| --- | --- |
| 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)

|  |  |
| --- | --- |
| Subindex | 0x00 |
| Name | Highest Subindex |
| Data Type | Unsigned8 |
| Access | Const |
| Can be mapped | No |
| Default Value | 0x05 |
|  |  |

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

|  |  |
| --- | --- |
| 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 |
|  |  |

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

### Active Error List (0x1032)

|  |  |
| --- | --- |
| Subindex | 0x00 |
| Name | Highest Subindex |
| Data Type | Unsigned8 |
| Access | Const |
| Can be mapped | No |
| Default Value | 0x04 |
| Low Limit | 0 |
| High Limit | 4 |
|  |  |

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

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

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

|  |  |
| --- | --- |
| Subindex | 0x04 |
| Name | Error Event 4 |
| Data Type | Unsigned32 |
| Access | ReadOnly |
| Can be mapped | No |
|  |  |

### Receive PDO Communication Parameter (0x1400)

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

|  |  |
| --- | --- |
| Subindex | 0x01 |
| Name | COB-ID |
| Data Type | Unsigned32 |
| Access | ReadWrite |
| Can be mapped | No |
| Default Value | $NODEID+0x80000200 |
| High Limit | 0xFFFFFFFF |
|  |  |

|  |  |
| --- | --- |
| 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 | ReadOnly |
| Can be mapped | No |
| Default Value | 2 |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x01 |
| Name | COB-ID |
| Data Type | Unsigned32 |
| Access | ReadWrite |
| Can be mapped | No |
| Default Value | $NODEID+0x80000300 |
| High Limit | 0xFFFFFFFF |
|  |  |

|  |  |
| --- | --- |
| 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 | 0x04 |
| Low Limit | 0 |
| High Limit | 64 |
|  |  |

|  |  |
| --- | --- |
| 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 | 8 |
| Low Limit | 0 |
| High Limit | 64 |
|  |  |

|  |  |
| --- | --- |
| 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) |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x03 |
| Name | PDO Mapping Entry |
| Data Type | Unsigned32 |
| Access | Const |
| Can be mapped | No |
| Default Value | 0x64110310 [0x6411,0x03] Write Analog Output 16-bit - AnalogOutput16\_3 (Integer16) |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x04 |
| Name | PDO Mapping Entry |
| Data Type | Unsigned32 |
| Access | Const |
| Can be mapped | No |
| Default Value | 0x64110410 [0x6411,0x04] Write Analog Output 16-bit - AnalogOutput16\_4 (Integer16) |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x05 |
| Name | PDO Mapping Entry |
| Data Type | Unsigned32 |
| Access | Const |
| Can be mapped | No |
| Default Value | 0x64110510 [0x6411,0x05] Write Analog Output 16-bit - AnalogOutput16\_5 (Integer16) |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x06 |
| Name | PDO Mapping Entry |
| Data Type | Unsigned32 |
| Access | Const |
| Can be mapped | No |
| Default Value | 0x64110610 [0x6411,0x06] Write Analog Output 16-bit - AnalogOutput16\_6 (Integer16) |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x07 |
| Name | PDO Mapping Entry |
| Data Type | Unsigned32 |
| Access | Const |
| Can be mapped | No |
| Default Value | 0x64110710 [0x6411,0x07] Write Analog Output 16-bit - AnalogOutput16\_7 (Integer16) |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x08 |
| Name | PDO Mapping Entry |
| Data Type | Unsigned32 |
| Access | Const |
| Can be mapped | No |
| Default Value | 0x64110810 [0x6411,0x08] Write Analog Output 16-bit - AnalogOutput16\_8 (Integer16) |
|  |  |

### Transmit PDO Communication Parameter (0x1800)

|  |  |
| --- | --- |
| Subindex | 0x00 |
| Name | Number of Entries |
| Data Type | Unsigned8 |
| Access | Const |
| Can be mapped | No |
| Default Value | 6 |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x01 |
| Name | COB-ID |
| Data Type | Unsigned32 |
| Access | ReadWrite |
| Can be mapped | No |
| Default Value | $NODEID+0xC0000180 |
| High Limit | 0xFFFFFFFF |
|  |  |

|  |  |
| --- | --- |
| 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 | 500 |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x06 |
| Name | Sync Start Value |
| Data Type | Unsigned8 |
| Access | ReadWrite |
| Can be mapped | No |
| Default Value | 0 |
|  |  |

### Transmit PDO Communication Parameter (0x1801)

|  |  |
| --- | --- |
| Subindex | 0x00 |
| Name | Number of Entries |
| Data Type | Unsigned8 |
| Access | Const |
| Can be mapped | No |
| Default Value | 6 |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x01 |
| Name | COB-ID |
| Data Type | Unsigned32 |
| Access | ReadWrite |
| Can be mapped | No |
| Default Value | $NODEID+0xC0000280 |
| High Limit | 0xFFFFFFFF |
|  |  |

|  |  |
| --- | --- |
| 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 | 2500 |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x05 |
| Name | Event Timer |
| Data Type | Unsigned16 |
| Access | ReadWrite |
| Can be mapped | No |
| Default Value | 1000 |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x06 |
| Name | Sync Start Value |
| Data Type | Unsigned8 |
| Access | ReadWrite |
| Can be mapped | No |
| Default Value | 0 |
|  |  |

### Transmit PDO Mapping Parameter (0x1A00)

|  |  |
| --- | --- |
| Subindex | 0x00 |
| Name | Number of Entries |
| Data Type | Unsigned8 |
| Access | Const |
| Can be mapped | No |
| Default Value | 0x04 |
| Low Limit | 0 |
| High Limit | 64 |
|  |  |

|  |  |
| --- | --- |
| 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 | 2 |
| Low Limit | 0 |
| High Limit | 64 |
|  |  |

|  |  |
| --- | --- |
| 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) |
|  |  |

### EmSA (0x5FFF)

|  |  |
| --- | --- |
| Subindex | 0x00 |
| Data Type | Visible String |
| Access | ReadOnly |
| Can be mapped | No |
| Default Value | EmSA www.em-sa.com, CANopen Architect Mini |
|  |  |

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

|  |  |
| --- | --- |
| Subindex | 0x00 |
| Name | Number of Elements |
| Data Type | Unsigned8 |
| Access | ReadOnly |
| Can be mapped | No |
| Default Value | 8 |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x01 |
| Name | DigInput8\_1 |
| Data Type | Unsigned8 |
| Access | ReadOnly |
| Can be mapped | Yes |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x02 |
| Name | DigInput8\_2 |
| Data Type | Unsigned8 |
| Access | ReadOnly |
| Can be mapped | Yes |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x03 |
| Name | DigInput8\_3 |
| Data Type | Unsigned8 |
| Access | ReadOnly |
| Can be mapped | Yes |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x04 |
| Name | DigInput8\_4 |
| Data Type | Unsigned8 |
| Access | ReadOnly |
| Can be mapped | Yes |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x05 |
| Name | DigInput8\_5 |
| Data Type | Unsigned8 |
| Access | ReadOnly |
| Can be mapped | Yes |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x06 |
| Name | DigInput8\_6 |
| Data Type | Unsigned8 |
| Access | ReadOnly |
| Can be mapped | Yes |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x07 |
| Name | DigInput8\_7 |
| Data Type | Unsigned8 |
| Access | ReadOnly |
| Can be mapped | Yes |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x08 |
| Name | DigInput8\_8 |
| Data Type | Unsigned8 |
| Access | ReadOnly |
| Can be mapped | Yes |
|  |  |

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

|  |  |
| --- | --- |
| Subindex | 0x00 |
| Name | Number of Elements |
| Data Type | Unsigned8 |
| Access | ReadOnly |
| Can be mapped | No |
| Default Value | 8 |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x01 |
| Name | DigOutput8\_1 |
| Data Type | Unsigned8 |
| Access | ReadWriteWrite |
| Can be mapped | Yes |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x02 |
| Name | DigOutput8\_2 |
| Data Type | Unsigned8 |
| Access | ReadWriteWrite |
| Can be mapped | Yes |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x03 |
| Name | DigOutput8\_3 |
| Data Type | Unsigned8 |
| Access | ReadWriteWrite |
| Can be mapped | Yes |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x04 |
| Name | DigOutput8\_4 |
| Data Type | Unsigned8 |
| Access | ReadWriteWrite |
| Can be mapped | Yes |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x05 |
| Name | DigOutput8\_5 |
| Data Type | Unsigned8 |
| Access | ReadWriteWrite |
| Can be mapped | Yes |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x06 |
| Name | DigOutput8\_6 |
| Data Type | Unsigned8 |
| Access | ReadWriteWrite |
| Can be mapped | Yes |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x07 |
| Name | DigOutput8\_7 |
| Data Type | Unsigned8 |
| Access | ReadWriteWrite |
| Can be mapped | Yes |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x08 |
| Name | DigOutput8\_8 |
| Data Type | Unsigned8 |
| Access | ReadWriteWrite |
| Can be mapped | Yes |
|  |  |

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

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

|  |  |
| --- | --- |
| Subindex | 0x01 |
| Name | AnalogInput16\_1 |
| Data Type | Integer16 |
| Access | ReadOnly |
| Can be mapped | Yes |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x02 |
| Name | AnalogInput16\_2 |
| Data Type | Integer16 |
| Access | ReadOnly |
| Can be mapped | Yes |
|  |  |

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

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

|  |  |
| --- | --- |
| Subindex | 0x01 |
| Name | AnalogOutput16\_1 |
| Data Type | Integer16 |
| Access | ReadWriteWrite |
| Can be mapped | Yes |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x02 |
| Name | AnalogOutput16\_2 |
| Data Type | Integer16 |
| Access | ReadWriteWrite |
| Can be mapped | Yes |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x03 |
| Name | AnalogOutput16\_3 |
| Data Type | Integer16 |
| Access | ReadWriteWrite |
| Can be mapped | Yes |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x04 |
| Name | AnalogOutput16\_4 |
| Data Type | Integer16 |
| Access | ReadWriteWrite |
| Can be mapped | Yes |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x05 |
| Name | AnalogOutput16\_5 |
| Data Type | Integer16 |
| Access | ReadWriteWrite |
| Can be mapped | Yes |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x06 |
| Name | AnalogOutput16\_6 |
| Data Type | Integer16 |
| Access | ReadWriteWrite |
| Can be mapped | Yes |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x07 |
| Name | AnalogOutput16\_7 |
| Data Type | Integer16 |
| Access | ReadWriteWrite |
| Can be mapped | Yes |
|  |  |

|  |  |
| --- | --- |
| Subindex | 0x08 |
| Name | AnalogOutput16\_8 |
| Data Type | Integer16 |
| Access | ReadWriteWrite |
| Can be mapped | Yes |
|  |  |