

Analog1_CiA401

Electronic Datasheet Information

Version 1, revision 2

EDS for PCAN-MicroMod FD Analog 1

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PEAK-System Technik GmbH

www.peak-system.com

CANopen and CANopen FD I/O Module

PCAN-MicroMod FD

Product Information

Property	Value
Vendor Name	PEAK-System
Vendor ID	0x00000175
Product Name	PCAN-MicroMod FD Analog 1
Product Code	0x48003087
Revision Number	0x00000001
Order Code	IPEH-003087

Commissioning Information

Property	Value
Node ID	0x00
Name	
Baudrate	125 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+0x80000200	255			
RPDO2	\$NODEID+0x00000300	255			
RPDO3	\$NODEID+0x80000400	255			
RPDO4	\$NODEID+0x80000500	255			
TPDO1	\$NODEID+0x40000180	255	1.0 ms	0 ms	
TPDO2	\$NODEID+0x40000280	255	50.0 ms	0 ms	
TPDO3	\$NODEID+0x40000380	255	50.0 ms	0 ms	
TPDO4	\$NODEID+0x40000480	255	50.0 ms	0 ms	

Mappings

PDO	Mappings
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RPDO1 <no mapped entries>
 RPDO2 [0x6411,0x01] AOut Write 16-bit - AOut_0 (Integer16)
 [0x6411,0x02] AOut Write 16-bit - AOut_1 (Integer16)
 [0x6411,0x03] AOut Write 16-bit - AOut_2 (Integer16)
 [0x6411,0x04] AOut Write 16-bit - AOut_3 (Integer16)
 RPDO3 <no mapped entries>
 RPDO4 <no mapped entries>
 TPDO1 [0x6000,0x01] DIIn Read 8-bit - DIIn_0_3 (Unsigned8)
 TPDO2 [0x6401,0x01] Aln Read 16-bit - Aln_0 (Integer16)
 [0x6401,0x02] Aln Read 16-bit - Aln_1 (Integer16)
 [0x6401,0x03] Aln Read 16-bit - Aln_2 (Integer16)
 [0x6401,0x04] Aln Read 16-bit - Aln_3 (Integer16)
 TPDO3 [0x6401,0x05] Aln Read 16-bit - Aln_4 (Integer16)
 [0x6401,0x06] Aln Read 16-bit - Aln_5 (Integer16)
 [0x6401,0x07] Aln Read 16-bit - Aln_6 (Integer16)
 [0x6401,0x08] Aln Read 16-bit - Aln_7 (Integer16)
 TPDO4 [0x6401,0x09] Aln Read 16-bit - Aln_8 (Integer16)
 [0x6401,0x0A] Aln Read 16-bit - Aln_9 (Integer16)
 [0x6401,0x0B] Aln Read 16-bit - Aln_10 (Integer16)
 [0x6401,0x0C] Aln Read 16-bit - Aln_11 (Integer16)

Object Dictionary

Overview

Index	Subindex	Name	Type	Access	Default Value
0x0002	0x00	INTEGER8	I8	WO	
0x0003	0x00	INTEGER16	I16	WO	
0x0004	0x00	INTEGER32	I32	WO	
0x0005	0x00	UNSIGNED8	U8	WO	
0x0006	0x00	UNSIGNED16	U16	WO	
0x0007	0x00	UNSIGNED32	U32	WO	
0x1000	0x00	Device Type	U8	RO	1
	0x01	Device Type 1	U32	RO	0x00070191
0x1001	0x00	Error Register	U8	RO	
0x1002	0x00	Manufacturer Status Register	U32	RO	
0x1003	0x00	Pre-Defined Error Field	U8	RW	0
	0x01	Pre-Defined Error Field 1	U32	RO	
	0x02	Pre-Defined Error Field 2	U32	RO	
	0x03	Pre-Defined Error Field 3	U32	RO	
	0x04	Pre-Defined Error Field 4	U32	RO	
0x1005	0x00	COB-ID SYNC	U32	CO	0x00000080
0x1008	0x00	Manufacturer Device Name	VisStr	RO	See description
		Manufacturer Hardware Version	VisStr	RO	See description
0x100A	0x00	Manufacturer Software Version	VisStr	RO	See description
0x1010	0x00	Store Parameters	U8	CO	4
	0x01	Save All Parameters	U32	RW	
	0x02	Save Communication Parameters	U32	RW	

0x1011	0x03	Save Application Parameters	U32	RW	
	0x04	Save Manufacturer Parameters	U32	RW	
	0x00	Restore Default Parameters	U8	CO	4
	0x01	Restore All Default Parameters	U32	RW	
	0x02	Restore Communication Default Parameters	U32	RW	
	0x03	Restore Application Default Parameters	U32	RW	
	0x04	Restore Manufacturer Default Parameters	U32	RW	
0x1014	0x00	COB-ID EMCY	U32	CO	\$NODEID+0x80
0x1015	0x00	Inhibit Time Emergency	U16	RW	0
0x1016	0x00	Heartbeat Consumer Time	U8	CO	3
	0x01	Heartbeat Consumer 1	U32	RW	0x00000000
	0x02	Heartbeat Consumer 2	U32	RW	0x00000000
	0x03	Heartbeat Consumer 3	U32	RW	0x00000000
0x1017	0x00	Producer Heartbeat Time	U16	RW	0
0x1018	0x00	Identity Object	U8	RO	3
	0x01	Vendor ID	U32	RO	0x00000175
	0x02	Product Code	U32	RO	0x48003087
	0x03	Revision number	U32	RO	0x00000001
0x1029	0x00	Error Behavior	U8	CO	3
	0x01	Communication Error	U8	RW	0
	0x02	Output Error	U8	RW	0
	0x03	Input Error	U8	RW	0
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
0x1032	0x04	Error History Domain	Dom	RO	See description
	0x05	Error History Processing	U32	RW	
	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	
0x1200	0x00	SDO Server Parameter	U8	CO	2
	0x01	COB-ID Client to Server	U32	CO	\$NODEID+0x600
	0x02	COB-ID Server to Client	U32	CO	\$NODEID+0x580
0x1400	0x00	Receive PDO 1 Communication	U8	CO	2
	0x01	COB-ID	U32	RW	\$NODEID+0x80000200
	0x02	Transmission Type	U8	RW	255

0x1401	0x00	Receive PDO 2 Communication	U8	CO	2
	0x01	COB ID	U32	RW	\$NODEID+0x00000300
	0x02	Transmission Type	U8	RW	255
0x1402	0x00	Receive PDO 3 Communication	U8	CO	2
	0x01	COB ID	U32	RW	\$NODEID+0x80000400
	0x02	Transmission Type	U8	RW	255
0x1403	0x00	Receive PDO 4 Communication	U8	CO	2
	0x01	COB ID	U32	RW	\$NODEID+0x80000500
	0x02	Transmission Type	U8	RW	255
0x1600	0x00	Receive PDO 1 Mapping	U8	RW	0
	0x01	Mapping 1	U32	RW	0
0x1601	0x00	Receive PDO 2 Mapping	U8	RW	4
	0x01	Mapping 1	U32	RW	0x64110110
	0x02	Mapping 2	U32	RW	0x64110210
	0x03	Mapping 3	U32	RW	0x64110310
	0x04	Mapping 4	U32	RW	0x64110410
0x1602	0x00	Receive PDO 3 Mapping	U8	RO	0
	0x01	Mapping 1	U32	RW	0
0x1603	0x00	Receive PDO 4 Mapping	U8	RW	0
	0x01	Mapping 1	U32	RW	0
0x1800	0x00	Transmit PDO 1 Communication	U8	CO	5
	0x01	COB-ID	U32	RW	\$NODEID+0x40000180
	0x02	Transmission Type	U8	RW	255
	0x03	Inhibit Time	U16	RW	10
	0x05	Event Timer	U16	RW	0
	0x00	Transmit PDO 2 Communication	U8	CO	5
	0x01	COB-ID	U32	RW	\$NODEID+0x40000280
0x1802	0x02	Transmission Type	U8	RW	255
	0x03	Inhibit Time	U16	RW	500
	0x05	Event Timer	U16	RW	0
	0x00	Transmit PDO 3 Communication	U8	CO	5
	0x01	COB ID	U32	RW	\$NODEID+0x40000380
	0x02	Transmission Type	U8	RW	255
	0x03	Inhibit Time	U16	RW	500
0x1803	0x05	Event Timer	U16	RW	0
	0x00	Transmit PDO 4 Communication	U8	CO	5
	0x01	COB ID	U32	RW	\$NODEID+0x40000480
	0x02	Transmission Type	U8	RW	255
	0x03	Inhibit Time	U16	RW	500
	0x05	Event Timer	U16	RW	0
	0x00	Transmit PDO 1 Mapping	U8	RW	1
0x1A00	0x01	Mapping 1	U32	RW	0x60000108
	0x00	Transmit PDO 2 Mapping	U8	RW	4
0x1A01	0x01	Mapping 1	U32	RW	0x64010110

0x1A02	0x02	Mapping 2	U32	RW	0x64010210
	0x03	Mapping 3	U32	RW	0x64010310
	0x04	Mapping 4	U32	RW	0x64010410
	0x00	Transmit PDO 3 Mapping	U8	RW	4
0x1A03	0x01	Mapping 1	U32	RW	0x64010510
	0x02	Mapping 2	U32	RW	0x64010610
	0x03	Mapping 3	U32	RW	0x64010710
	0x04	Mapping 4	U32	RW	0x64010810
0x2018	0x00	Transmit PDO 4 Mapping	U8	RW	4
	0x01	Mapping 1	U32	RW	0x64010910
	0x02	Mapping 2	U32	RW	0x64010A10
	0x03	Mapping 3	U32	RW	0x64010B10
0x2019	0x04	Mapping 4	U32	RW	0x64010C10
	0x00	MicroCANopen Identity Object	U8	CO	4
	0x01	Vendor Id	U32	CO	0x01455341
	0x02	Product Code	U32	RO	
0x2020	0x03	Revision number	U32	RO	
	0x04	EDS/XDD Version	U32	CO	0x00010002
	0x00	Hardware ID	U8	RO	4
	0x01	Hardware ID 1	U32	CO	
0x3001	0x02	Hardware ID 2	U32	CO	
	0x03	Hardware ID 3	U32	CO	
	0x04	Hardware ID 4	U32	CO	
	0x00	Maintenance	U8	RO	3
0x3002	0x01	Password	U32	WO	
	0x02	Command	U32	WO	
	0x03	Result	U8	RO	0x00
	0x00	Frequency Output 0	U8	CO	2
0x3003	0x01	Frequency	R32	RW	0.0
	0x02	Duty Cycle	R32	RW	0.0
	0x00	Frequency Output 1	U8	CO	2
	0x01	Frequency	R32	RW	0.0
0x3100	0x02	Duty Cycle	R32	RW	0.0
	0x00	DIn Pullup Pulldown	U8	RO	4
	0x01	DIn_0	U8	RW	0
	0x02	DIn_1	U8	RW	0
0x3401	0x03	DIn_2	U8	RW	0
	0x04	DIn_3	U8	RW	0
	0x00	AIn Measuring Range	U8	RO	8
	0x01	AIn_0	U8	RW	2
0x3411	0x02	AIn_1	U8	RW	2
	0x03	AIn_2	U8	RW	2
	0x04	AIn_3	U8	RW	2
	0x05	AIn_4	U8	RW	2
0x3412	0x06	AIn_5	U8	RW	2
	0x07	AIn_6	U8	RW	2
	0x08	AIn_7	U8	RW	2
	0x00	AOut Output Range	U8	RO	4
0x3413	0x01	AOut_0	U8	RW	1
	0x02	AOut_1	U8	RW	1

	0x03	AOut_2	U8	RW	1
	0x04	AOut_3	U8	RW	1
0x6000	0x00	DIn Read 8-bit	U8	RO	1
	0x01	DIn_0_3	U8	RO	
0x6002	0x00	DIn Polarity 8-bit	U8	RO	1
	0x01	DIn_0_3	U8	RWW	0
0x6020	0x00	DIn Read 1-bit	U8	RO	4
	0x01	DIn_0	Bool	RO	
	0x02	DIn_1	Bool	RO	
	0x03	DIn_2	Bool	RO	
	0x04	DIn_3	Bool	RO	
0x6401	0x00	AIIn Read 16-bit	U8	RO	12
	0x01	AIIn_0	I16	RO	
	0x02	AIIn_1	I16	RO	
	0x03	AIIn_2	I16	RO	
	0x04	AIIn_3	I16	RO	
	0x05	AIIn_4	I16	RO	
	0x06	AIIn_5	I16	RO	
	0x07	AIIn_6	I16	RO	
	0x08	AIIn_7	I16	RO	
	0x09	AIIn_8	I16	RO	
	0x0A	AIIn_9	I16	RO	
	0x0B	AIIn_10	I16	RO	
	0x0C	AIIn_11	I16	RO	
0x6404	0x00	AIIn Read Manufacturer-specific	U8	RO	1
	0x01	Vcc 12-bit	U16	RO	
0x6411	0x00	AOut Write 16-bit	U8	RO	4
	0x01	AOut_0	I16	RWW	0
	0x02	AOut_1	I16	RWW	0
	0x03	AOut_2	I16	RWW	0
	0x04	AOut_3	I16	RWW	0

Device Type (0x1000, CANopen FD only)

Subindex	0x00
Name	Number of Entries
Data Type	Unsigned8
Access	ReadOnly
Can be mapped	No
Default Value	1

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	0x00070191

Only valid for CANopen FD. In CANopen, this entry is at [1000h,0] and [1000h,1] doesn't exist.

Error Register (0x1001)

Subindex	0x00
Data Type	Unsigned8
Access	ReadOnly
Can be mapped	No

Manufacturer Status Register (0x1002)

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

Pre-Defined Error Field (0x1003, CANopen only)

Subindex	0x00
Name	Number of Errors
Data Type	Unsigned8
Access	ReadWrite
Can be mapped	No
Default Value	0

Subindex	0x01
Name	Pre-Defined Error Field 1
Data Type	Unsigned32
Access	ReadOnly
Can be mapped	No

Subindex	0x02
Name	Pre-Defined Error Field 2
Data Type	Unsigned32
Access	ReadOnly
Can be mapped	No

Subindex	0x03
Name	Pre-Defined Error Field 3
Data Type	Unsigned32
Access	ReadOnly
Can be mapped	No

Subindex	0x04
Name	Pre-Defined Error Field 4
Data Type	Unsigned32
Access	ReadOnly
Can be mapped	No

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	PCAN-MicroMod FD CiA 401

Manufacturer Hardware Version (0x1009)

Subindex	0x00
Data Type	Visible String
Access	ReadOnly
Can be mapped	No
Default Value	V2.00

Manufacturer Software Version (0x100A)

Subindex	0x00
Data Type	Visible String
Access	ReadOnly
Can be mapped	No

Store Parameters (0x1010)

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

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

Restore Default Parameters (0x1011)

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

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

Subindex	0x02
Name	Restore Communication Default Parameters
Data Type	Unsigned32
Access	ReadWrite
Can be mapped	No

Subindex	0x03
Name	Restore Application Default Parameters
Data Type	Unsigned32
Access	ReadWrite
Can be mapped	No

Subindex	0x04
Name	Restore Manufacturer Default Parameters
Data Type	Unsigned32
Access	ReadWrite
Can be mapped	No

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	ReadWrite
Can be mapped	No
Default Value	0

Heartbeat Consumer Time (0x1016)

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

Default Value	3
Subindex	0x01
Name	Heartbeat Consumer 1
Data Type	Unsigned32
Access	ReadWrite
Can be mapped	No
Default Value	0x00000000

Subindex	0x02
Name	Heartbeat Consumer 2
Data Type	Unsigned32
Access	ReadWrite
Can be mapped	No
Default Value	0x00000000

Subindex	0x03
Name	Heartbeat Consumer 3
Data Type	Unsigned32
Access	ReadWrite
Can be mapped	No
Default Value	0x00000000

Producer Heartbeat Time (0x1017)

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

Identity Object (0x1018)

Subindex	0x00
Name	Highest Subindex
Data Type	Unsigned8
Access	ReadOnly
Can be mapped	No
Default Value	3

Subindex	0x01
Name	Vendor ID
Data Type	Unsigned32
Access	ReadOnly
Can be mapped	No
Default Value	0x00000175

Subindex	0x02
Name	Product Code
Data Type	Unsigned32
Access	ReadOnly
Can be mapped	No
Default Value	0x48003087

Subindex	0x03
Name	Revision number
Data Type	Unsigned32
Access	ReadOnly
Can be mapped	No
Default Value	0x00000001

Error Behavior (0x1029)

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

Subindex	0x01
Name	Communication Error
Data Type	Unsigned8
Access	ReadWrite
Can be mapped	No
Default Value	0
Low Limit	0
High Limit	2

00h: Change to NMT state Pre-operational (only if currently in NMT state Operational)

01h: No change of the NMT state

02h: Change to NMT state Stopped

Subindex	0x02
Name	Output Error
Data Type	Unsigned8
Access	ReadWrite
Can be mapped	No
Default Value	0
Low Limit	0
High Limit	2

00h: Change to NMT state Pre-operational (only if currently in NMT state Operational)

01h: No change of the NMT state

02h: Change to NMT state Stopped

Subindex	0x03
Name	Input Error
Data Type	Unsigned8
Access	ReadWrite
Can be mapped	No
Default Value	0
Low Limit	0
High Limit	2

00h: Change to NMT state Pre-operational (only if currently in NMT state Operational)

01h: No change of the NMT state
02h: Change to NMT state Stopped

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

CiA 1301 Version: 1.0.(2) from 21 October 2019

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

CiA 401 Version: 3.0.(0) from 03 June 2019, CiA 401-B/F not released yet

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
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, CANopen FD only)

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

SDO Server Parameter (0x1200, CANopen only)

Subindex	0x00
Name	Highest Subindex
Data Type	Unsigned8
Access	Const
Can be mapped	No
Default Value	2
Subindex	0x01
Name	COB-ID Client to Server
Data Type	Unsigned32
Access	Const
Can be mapped	No
Default Value	\$NODEID+0x600
Subindex	0x02
Name	COB-ID Server to Client
Data Type	Unsigned32
Access	Const
Can be mapped	No
Default Value	\$NODEID+0x580

Receive PDO 1 Communication (0x1400)

Subindex	0x00
Name	Highest Subindex
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+0x80000200
Subindex	0x02
Name	Transmission Type
Data Type	Unsigned8
Access	ReadWrite
Can be mapped	No
Default Value	255

Receive PDO 2 Communication (0x1401)

Subindex	0x00
Name	Highest Subindex
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+0x00000300

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

Receive PDO 3 Communication (0x1402)

Subindex	0x00
Name	Highest Subindex
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+0x80000400

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

Receive PDO 4 Communication (0x1403)

Subindex	0x00
Name	Highest Subindex
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+0x80000500

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

Receive PDO 1 Mapping (0x1600)

Subindex	0x00
Name	Highest Subindex
Data Type	Unsigned8
Access	ReadWrite
Can be mapped	No
Default Value	0
Low Limit	0
High Limit	8

Subindex	0x01
Name	Mapping 1
Data Type	Unsigned32
Access	ReadWrite
Can be mapped	No
Default Value	0 <invalid mapping>

Receive PDO 2 Mapping (0x1601)

Subindex	0x00
Name	Highest Subindex
Data Type	Unsigned8
Access	ReadWrite
Can be mapped	No
Default Value	4
Low Limit	0
High Limit	8

Subindex	0x01
Name	Mapping 1
Data Type	Unsigned32
Access	ReadWrite
Can be mapped	No
Default Value	0x64110110 [0x6411,0x01] AOut Write 16-bit - AOut_0 (Integer16)

Subindex	0x02
Name	Mapping 2
Data Type	Unsigned32
Access	ReadWrite
Can be mapped	No
Default Value	0x64110210 [0x6411,0x02] AOut Write 16-bit - AOut_1 (Integer16)

Subindex	0x03
Name	Mapping 3
Data Type	Unsigned32

Access	ReadWrite
Can be mapped	No
Default Value	0x64110310 [0x6411,0x03] AOut Write 16-bit - AOut_2 (Integer16)

Subindex	0x04
Name	Mapping 4
Data Type	Unsigned32
Access	ReadWrite
Can be mapped	No
Default Value	0x64110410 [0x6411,0x04] AOut Write 16-bit - AOut_3 (Integer16)

Receive PDO 3 Mapping (0x1602)

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

Subindex	0x01
Name	Mapping 1
Data Type	Unsigned32
Access	ReadWrite
Can be mapped	No
Default Value	0 <invalid mapping>

Receive PDO 4 Mapping (0x1603)

Subindex	0x00
Name	Highest Subindex
Data Type	Unsigned8
Access	ReadWrite
Can be mapped	No
Default Value	0
Low Limit	0
High Limit	8

Subindex	0x01
Name	Mapping 1
Data Type	Unsigned32
Access	ReadWrite
Can be mapped	No
Default Value	0 <invalid mapping>

Transmit PDO 1 Communication (0x1800)

Subindex	0x00
Name	Highest Subindex
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
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	10

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

Transmit PDO 2 Communication (0x1801)

Subindex	0x00
Name	Highest Subindex
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
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	500

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

Transmit PDO 3 Communication (0x1802)

Subindex	0x00
Name	Highest Subindex
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+0x40000380

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	500

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

Transmit PDO 4 Communication (0x1803)

Subindex	0x00
Name	Highest Subindex
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+0x40000480
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	500
Subindex	0x05
Name	Event Timer
Data Type	Unsigned16
Access	ReadWrite
Can be mapped	No
Default Value	0

Transmit PDO 1 Mapping (0x1A00)

Subindex	0x00
Name	Highest Subindex
Data Type	Unsigned8
Access	ReadWrite
Can be mapped	No
Default Value	1
Low Limit	0
High Limit	8
Subindex	0x01
Name	Mapping 1
Data Type	Unsigned32
Access	ReadWrite
Can be mapped	No
Default Value	0x60000108

[0x6000,0x01] DIn Read 8-bit - DIn_0_3 (Unsigned8)

Transmit PDO 2 Mapping (0x1A01)

Subindex	0x00
Name	Highest Subindex
Data Type	Unsigned8
Access	ReadWrite
Can be mapped	No
Default Value	4
Low Limit	0
High Limit	8

Subindex	0x01
Name	Mapping 1
Data Type	Unsigned32
Access	ReadWrite
Can be mapped	No
Default Value	0x64010110

[0x6401,0x01] AIn Read 16-bit - AIn_0 (Integer16)

Subindex	0x02
Name	Mapping 2
Data Type	Unsigned32
Access	ReadWrite
Can be mapped	No
Default Value	0x64010210

[0x6401,0x02] AIn Read 16-bit - AIn_1 (Integer16)

Subindex	0x03
Name	Mapping 3
Data Type	Unsigned32
Access	ReadWrite
Can be mapped	No
Default Value	0x64010310

[0x6401,0x03] AIn Read 16-bit - AIn_2 (Integer16)

Subindex	0x04
Name	Mapping 4
Data Type	Unsigned32
Access	ReadWrite
Can be mapped	No
Default Value	0x64010410

[0x6401,0x04] AIn Read 16-bit - AIn_3 (Integer16)

Transmit PDO 3 Mapping (0x1A02)

Subindex	0x00
Name	Highest Subindex
Data Type	Unsigned8
Access	ReadWrite
Can be mapped	No
Default Value	4
Low Limit	0

High Limit	8
Subindex	0x01
Name	Mapping 1
Data Type	Unsigned32
Access	ReadWrite
Can be mapped	No
Default Value	0x64010510 [0x6401,0x05] Aln Read 16-bit - Aln_4 (Integer16)

Subindex	0x02
Name	Mapping 2
Data Type	Unsigned32
Access	ReadWrite
Can be mapped	No
Default Value	0x64010610 [0x6401,0x06] Aln Read 16-bit - Aln_5 (Integer16)

Subindex	0x03
Name	Mapping 3
Data Type	Unsigned32
Access	ReadWrite
Can be mapped	No
Default Value	0x64010710 [0x6401,0x07] Aln Read 16-bit - Aln_6 (Integer16)

Subindex	0x04
Name	Mapping 4
Data Type	Unsigned32
Access	ReadWrite
Can be mapped	No
Default Value	0x64010810 [0x6401,0x08] Aln Read 16-bit - Aln_7 (Integer16)

Transmit PDO 4 Mapping (0x1A03)

Subindex	0x00
Name	Highest Subindex
Data Type	Unsigned8
Access	ReadWrite
Can be mapped	No
Default Value	4
Low Limit	0
High Limit	8

Subindex	0x01
Name	Mapping 1
Data Type	Unsigned32
Access	ReadWrite
Can be mapped	No
Default Value	0x64010910 [0x6401,0x09] Aln Read 16-bit - Aln_8 (Integer16)

Subindex	0x02
Name	Mapping 2
Data Type	Unsigned32
Access	ReadWrite
Can be mapped	No
Default Value	0x64010A10 [0x6401,0x0A] Aln Read 16-bit - Aln_9 (Integer16)

Subindex	0x03
Name	Mapping 3
Data Type	Unsigned32
Access	ReadWrite
Can be mapped	No
Default Value	0x64010B10 [0x6401,0x0B] Aln Read 16-bit - Aln_10 (Integer16)

Subindex	0x04
Name	Mapping 4
Data Type	Unsigned32
Access	ReadWrite
Can be mapped	No
Default Value	0x64010C10 [0x6401,0x0C] Aln Read 16-bit - Aln_11 (Integer16)

MicroCANOpen Identity Object (0x2018)

Subindex	0x00
Name	Highest Subindex
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	0x01455341

Subindex	0x02
Name	Product Code
Data Type	Unsigned32
Access	ReadOnly
Can be mapped	No

Subindex	0x03
Name	Revision number
Data Type	Unsigned32
Access	ReadOnly
Can be mapped	No

Subindex	0x04
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Name	EDS/XDD Version
Data Type	Unsigned32
Access	Const
Can be mapped	No
Default Value	0x00010002

File Information:
 Bits 31-16: File Version
 Bits 15-0: File Revision

Hardware ID (0x2019)

Subindex	0x00
Name	Highest Subindex
Data Type	Unsigned8
Access	ReadOnly
Can be mapped	No
Default Value	4

Subindex	0x01
Name	Hardware ID 1
Data Type	Unsigned32
Access	Const
Can be mapped	No

The Hardware ID entries together contain the unique 128-bit ID number that is also reported during identification with PEAK tools.

Subindex	0x02
Name	Hardware ID 2
Data Type	Unsigned32
Access	Const
Can be mapped	No

Subindex	0x03
Name	Hardware ID 3
Data Type	Unsigned32
Access	Const
Can be mapped	No

Subindex	0x04
Name	Hardware ID 4
Data Type	Unsigned32
Access	Const
Can be mapped	No

Maintenance (0x2020)

Subindex	0x00
Name	Highest Subindex
Data Type	Unsigned8
Access	ReadOnly
Can be mapped	No
Default Value	3

Maintenance and support command interface - use with care!

Subindex	0x01
Name	Password
Data Type	Unsigned32
Access	WriteOnly
Can be mapped	No

Writing the correct password is required to unlock the maintenance commands of the following entries. The password is given by technical support on request only.

Subindex	0x02
Name	Command
Data Type	Unsigned32
Access	WriteOnly
Can be mapped	No

Available commands:

0x41726C43 ("ClrA"): Clear activation data
0x43726C43 ("ClrC"): Clear configuration data

Commands are only effective after the password has been written into subindex 1 of this entry.

Subindex	0x03
Name	Result
Data Type	Unsigned8
Access	ReadOnly
Can be mapped	No
Default Value	0x00

Available results:

0x00 : no result because no command was given
0x01 : command executed without error
0xFF : error when executing the command

Frequency Output 0 (0x3001)

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

Subindex	0x01
Name	Frequency
Data Type	Real32
Access	ReadWrite
Can be mapped	Yes
Default Value	0.0

Low Limit	0.0
High Limit	20000.0

Frequency for the output in Hz, between 0-20 kHz. A value of 0 turns off the frequency output.

Subindex	0x02
Name	Duty Cycle
Data Type	Real32
Access	ReadWrite
Can be mapped	Yes
Default Value	0.0
Low Limit	0.0
High Limit	100.0

Duty cycle for the frequency output in %, between 0-100%.

Frequency Output 1 (0x3002)

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

Subindex	0x01
Name	Frequency
Data Type	Real32
Access	ReadWrite
Can be mapped	Yes
Default Value	0.0
Low Limit	0.0
High Limit	20000.0

Frequency for the output in Hz, between 0-20 kHz. A value of 0 turns off the frequency output.

Subindex	0x02
Name	Duty Cycle
Data Type	Real32
Access	ReadWrite
Can be mapped	Yes
Default Value	0.0
Low Limit	0.0
High Limit	100.0

Duty cycle for the frequency output in %, between 0-100%.

DIn Pullup Pulldown (0x3100)

Subindex	0x00
Name	Number of Elements
Data Type	Unsigned8
Access	ReadOnly
Can be mapped	No

Default Value 4

Pull-up/pull-down resistors for DIn_0 through DIn_3 in subindexes 1-4:

0: no pull-up/pull-down (default)

1: pull-up

2: pull-down

Subindex	0x01
Name	DIn_0
Data Type	Unsigned8
Access	ReadWrite
Can be mapped	No
Default Value	0
Low Limit	0
High Limit	2

Subindex	0x02
Name	DIn_1
Data Type	Unsigned8
Access	ReadWrite
Can be mapped	No
Default Value	0
Low Limit	0
High Limit	2

Subindex	0x03
Name	DIn_2
Data Type	Unsigned8
Access	ReadWrite
Can be mapped	No
Default Value	0
Low Limit	0
High Limit	2

Subindex	0x04
Name	DIn_3
Data Type	Unsigned8
Access	ReadWrite
Can be mapped	No
Default Value	0
Low Limit	0
High Limit	2

[AI_n Measuring Range \(0x3401\)](#)

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

Measuring range AI_n_0 through AI_n_7 in subindexes 1-8:

0: ± 2.5 V
1: ± 5 V
2: ± 10 V (default)
3: ± 20 V

Subindex	0x01
Name	Aln_0
Data Type	Unsigned8
Access	ReadWrite
Can be mapped	Yes
Default Value	2
Low Limit	0
High Limit	3

Subindex	0x02
Name	Aln_1
Data Type	Unsigned8
Access	ReadWrite
Can be mapped	Yes
Default Value	2
Low Limit	0
High Limit	3

Subindex	0x03
Name	Aln_2
Data Type	Unsigned8
Access	ReadWrite
Can be mapped	Yes
Default Value	2
Low Limit	0
High Limit	3

Subindex	0x04
Name	Aln_3
Data Type	Unsigned8
Access	ReadWrite
Can be mapped	Yes
Default Value	2
Low Limit	0
High Limit	3

Subindex	0x05
Name	Aln_4
Data Type	Unsigned8
Access	ReadWrite
Can be mapped	Yes
Default Value	2
Low Limit	0
High Limit	3

Subindex	0x06
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Name	AIIn_5
Data Type	Unsigned8
Access	ReadWrite
Can be mapped	Yes
Default Value	2
Low Limit	0
High Limit	3

Subindex	0x07
Name	AIIn_6
Data Type	Unsigned8
Access	ReadWrite
Can be mapped	Yes
Default Value	2
Low Limit	0
High Limit	3

Subindex	0x08
Name	AIIn_7
Data Type	Unsigned8
Access	ReadWrite
Can be mapped	Yes
Default Value	2
Low Limit	0
High Limit	3

AOut Output Range (0x3411)

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

Output range AOut_0 through AOut_3 in subindexes 1-4:

0: 0-5 V

1: 0-10 V (default)

Subindex	0x01
Name	AOut_0
Data Type	Unsigned8
Access	ReadWrite
Can be mapped	No
Default Value	1
Low Limit	0
High Limit	1

Subindex	0x02
Name	AOut_1
Data Type	Unsigned8
Access	ReadWrite
Can be mapped	No

Default Value	1
Low Limit	0
High Limit	1

Subindex	0x03
Name	AOut_2
Data Type	Unsigned8
Access	ReadWrite
Can be mapped	No
Default Value	1
Low Limit	0
High Limit	1

Subindex	0x04
Name	AOut_3
Data Type	Unsigned8
Access	ReadWrite
Can be mapped	No
Default Value	1
Low Limit	0
High Limit	1

DIn Read 8-bit (0x6000)

Subindex	0x00
Name	Number of Elements
Data Type	Unsigned8
Access	ReadOnly
Can be mapped	No
Default Value	1

Subindex	0x01
Name	DIn_0_3
Data Type	Unsigned8
Access	ReadOnly
Can be mapped	Yes

DIn Polarity 8-bit (0x6002)

Subindex	0x00
Name	Highest Subindex
Data Type	Unsigned8
Access	ReadOnly
Can be mapped	No
Default Value	1

Subindex	0x01
Name	DIn_0_3
Data Type	Unsigned8
Access	ReadWriteWrite
Can be mapped	Yes
Default Value	0

DIn Read 1-bit (0x6020)

Subindex	0x00
Name	Highest Subindex
Data Type	Unsigned8
Access	ReadOnly
Can be mapped	No
Default Value	4

Subindex	0x01
Name	DIn_0
Data Type	Boolean
Access	ReadOnly
Can be mapped	No

Subindex	0x02
Name	DIn_1
Data Type	Boolean
Access	ReadOnly
Can be mapped	No

Subindex	0x03
Name	DIn_2
Data Type	Boolean
Access	ReadOnly
Can be mapped	No

Subindex	0x04
Name	DIn_3
Data Type	Boolean
Access	ReadOnly
Can be mapped	No

AIIn Read 16-bit (0x6401)

Subindex	0x00
Name	Number of Elements
Data Type	Unsigned8
Access	ReadOnly
Can be mapped	No
Default Value	12

AIIn_0 through AIIn_7 are 16-bit analog inputs 0-3 V sampled at 1 kHz with adjustable measuring range, see object 3401h.

AIIn_8 through AIIn_11 are 12-bit left-aligned analog inputs sampled at 1 kHz with fixed measuring range 0-10 V.

Subindex	0x01
Name	AIIn_0
Data Type	Integer16
Access	ReadOnly
Can be mapped	Yes

Subindex	0x02
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Name	Aln_1
Data Type	Integer16
Access	ReadOnly
Can be mapped	Yes

Subindex	0x03
Name	Aln_2
Data Type	Integer16
Access	ReadOnly
Can be mapped	Yes

Subindex	0x04
Name	Aln_3
Data Type	Integer16
Access	ReadOnly
Can be mapped	Yes

Subindex	0x05
Name	Aln_4
Data Type	Integer16
Access	ReadOnly
Can be mapped	Yes

Subindex	0x06
Name	Aln_5
Data Type	Integer16
Access	ReadOnly
Can be mapped	Yes

Subindex	0x07
Name	Aln_6
Data Type	Integer16
Access	ReadOnly
Can be mapped	Yes

Subindex	0x08
Name	Aln_7
Data Type	Integer16
Access	ReadOnly
Can be mapped	Yes

Subindex	0x09
Name	Aln_8
Data Type	Integer16
Access	ReadOnly
Can be mapped	Yes

Subindex	0x0A
Name	Aln_9
Data Type	Integer16
Access	ReadOnly

Can be mapped	Yes
Subindex	0x0B
Name	AI _n _10
Data Type	Integer16
Access	ReadOnly
Can be mapped	Yes

Subindex	0x0C
Name	AI _n _11
Data Type	Integer16
Access	ReadOnly
Can be mapped	Yes

AI_n Read Manufacturer-specific (0x6404)

Subindex	0x00
Name	Highest Subindex
Data Type	Unsigned8
Access	ReadOnly
Can be mapped	No
Default Value	1

Subindex	0x01
Name	Vcc 12-bit
Data Type	Unsigned16
Access	ReadOnly
Can be mapped	Yes

AOut Write 16-bit (0x6411)

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

AOut_0 through AOut_4 are left-aligned 12-bit analog outputs with selectable range, see object 3411h.

Subindex	0x01
Name	AOut_0
Data Type	Integer16
Access	ReadWriteWrite
Can be mapped	Yes
Default Value	0
Low Limit	0
High Limit	0x7FF8

Subindex	0x02
Name	AOut_1
Data Type	Integer16
Access	ReadWriteWrite

Can be mapped	Yes
Default Value	0
Low Limit	0
High Limit	0x7FF8
Subindex	0x03
Name	AOut_2
Data Type	Integer16
Access	ReadWriteWrite
Can be mapped	Yes
Default Value	0
Low Limit	0
High Limit	0x7FF8
Subindex	0x04
Name	AOut_3
Data Type	Integer16
Access	ReadWriteWrite
Can be mapped	Yes
Default Value	0
Low Limit	0
High Limit	0x7FF8