

EP8H00x

IO-Link Hubs



Interface Description

EP8H00x

Vendor ID

Product	hex	dec	hex (Bytes)	dec (Bytes)
wenglor sensoric GmbH	0x0057	87	00 57	0 87

Device ID

Product	hex	dec	hex (Bytes)	dec (Bytes)
EP8H001	0x000033	51	00 00 33	0 0 51
EP8H002	0x000034	52	00 00 34	0 0 52

IO-Link Information

IO-Link Version:	V1.1
Data Storage:	Yes
Blockparameter:	Yes
Min Cycle time:	0,8 ms
SIO-Mode:	No
COM-Mode:	COM3
ISDU:	Yes
Process data In (Device to Master):	16 Bit
Process data Out (Master to Device):	16 Bit

IO-Link Profiles

Common Profile
Firmware Update

Process Data

Process Data Input (Length: 16 Bit) Device to Master

Subindex	Name	Bit Offset	Length	Byte	Range
1	X0, Pin 4 (CH00)	8	1 Bit	0	0 = false, 1 = true
2	X0, Pin 2 (CH10)*	9	1 Bit		0 = false, 1 = true
3	X1, Pin 4 (CH01)	10	1 Bit		0 = false, 1 = true
4	X1, Pin 2 (CH11)*	11	1 Bit		0 = false, 1 = true
5	X2, Pin 4 (CH02)	12	1 Bit		0 = false, 1 = true
6	X2, Pin 2 (CH12)*	13	1 Bit		0 = false, 1 = true
7	X3, Pin 4 (CH03)	14	1 Bit		0 = false, 1 = true
8	X3, Pin 2 (CH13)*	15	1 Bit		0 = false, 1 = true
9	X4, Pin 4 (CH04)	0	1 Bit	1	0 = false, 1 = true
10	X4, Pin 2 (CH14)*	1	1 Bit		0 = false, 1 = true
11	X5, Pin 4 (CH05)	2	1 Bit		0 = false, 1 = true
12	X5, Pin 2 (CH15)*	3	1 Bit		0 = false, 1 = true
13	X6, Pin 4 (CH06)	4	1 Bit		0 = false, 1 = true
14	X6, Pin 2 (CH16)*	5	1 Bit		0 = false, 1 = true
15	X7, Pin 4 (CH07)	6	1 Bit		0 = false, 1 = true
16	X7, Pin 2 (CH17)*	7	1 Bit		0 = false, 1 = true

Process Data Output (Length: 16 Bit) Master to Device

Subindex	Name	Bit Offset	Length	Byte	Range
1	X0, Pin 4 (CH00)	8	1 Bit	0	0 = false, 1 = true
2	X0, Pin 2 (CH10)*	9	1 Bit		0 = false, 1 = true
3	X1, Pin 4 (CH01)	10	1 Bit		0 = false, 1 = true
4	X1, Pin 2 (CH11)*	11	1 Bit		0 = false, 1 = true
5	X2, Pin 4 (CH02)	12	1 Bit		0 = false, 1 = true
6	X2, Pin 2 (CH12)*	13	1 Bit		0 = false, 1 = true
7	X3, Pin 4 (CH03)	14	1 Bit		0 = false, 1 = true
8	X3, Pin 2 (CH13)*	15	1 Bit		0 = false, 1 = true
9	X4, Pin 4 (CH04)	0	1 Bit	1	0 = false, 1 = true
10	X4, Pin 2 (CH14)*	1	1 Bit		0 = false, 1 = true
11	X5, Pin 4 (CH05)	2	1 Bit		0 = false, 1 = true
12	X5, Pin 2 (CH15)*	3	1 Bit		0 = false, 1 = true
13	X6, Pin 4 (CH06)	4	1 Bit		0 = false, 1 = true
14	X6, Pin 2 (CH16)*	5	1 Bit		0 = false, 1 = true
15	X7, Pin 4 (CH07)	6	1 Bit		0 = false, 1 = true
16	X7, Pin 2 (CH17)*	7	1 Bit		0 = false, 1 = true

* Not available at EP8H002

Parameter

Identification

Name	Index (hex)	Index (dec)	Sub-index	R/W	Datatype	Data Storage	Dynamic	Modify others	Default value	Range
Information										
Vendor Name	0x0010	16	0	R	String				wenglor	
Vendor Text	0x0011	17	0	R	String				the innovative family	
Product Name	0x0012	18	0	R	String				EP8H001 / EP8H002	
Product ID	0x0013	19	0	R	String				EP8H001 / EP8H002	
Product Text	0x0014	20	0	R	String				IO-Link Hub M12/ M8	
Serial Number	0x0015	21	0	R	String				-	
Hardware Version	0x0016	22	0	R	String				-	
Hardware identification key	0x43BE	17342	0	R	String				EP8H001 / EP8H002	
Firmware Version	0x0017	23	0	R	String				-	
Tags										
Application Specific Tag	0x0018	24	0	R/W	String 32 Byte				***	
Function Tag	0x0019	25	0	R/W	String 32 Byte				***	
Location Tag	0x001A	26	0	R/W	String 32 Byte				***	

Parameter

Name	Index (hex)	Index (dec)	Sub-index	R/W	Datatype	Data Storage	Dynamic	Modify others	Default value	Range
System Commands										
System Command	0x0002	2	0	W	Uint8				-	Device Reset = 0x80 (128)

Diagnosis

Name	Index (hex)	Index (dec)	Sub-index	R/W	Datatype	Data Storage	Dynamic	Modify others	Default value	Range
Status										
Device Status	0x0024	36	0	R	Uint8		X		0	0 = Device is OK 1 = Maintenance required 2 = Out of specification 3 = Functional check 4 = Failure
Detailed Device Status	0x0025	37	0	R	Array of OctectStringT3		X		0	Shows the pending Events (maximum 6)
Error	0x0020	32	0	R	Uint16		X		0	

Events

Name	Event Code	Type	Specification
Temperature fault - Overload	0x4000	Error	IO-Link
Device temperature over-run – Clear source of heat	0x4210	Warning	IO-Link
Device temperature underrun - Insulate Device	0x4220	Warning	IO-Link
General power supply fault - Check availability	0x5100	Error	IO-Link
Primary supply voltage overrun – Check tolerance	0x5110	Warning	IO-Link
Primary supply voltage underrun – Check tolerance	0x5111	Warning	IO-Link
Non volatile memory loss – Check batteries	0x5011	Error	IO-Link
Short circuit – Check installation	0x7710	Error	IO-Link
Short circuit / overload at port 0 pin 4	0x8CA0	Error	Vendor specific
Short circuit / overload at port 0 pin 2*	0x8CA1	Error	Vendor specific
Short circuit / overload at port 1 pin 4	0x8CA2	Error	Vendor specific
Short circuit / overload at port 1 pin 2*	0x8CA3	Error	Vendor specific
Short circuit / overload at port 2 pin 4	0x8CA4	Error	Vendor specific
Short circuit / overload at port 2 pin 2*	0x8CA5	Error	Vendor specific
Short circuit / overload at port 3 pin 4	0x8CA6	Error	Vendor specific
Short circuit / overload at port 3 pin 2*	0x8CA7	Error	Vendor specific
Short circuit / overload at port 4 pin 4	0x8CA8	Error	Vendor specific
Short circuit / overload at port 4 pin 2*	0x8CA9	Error	Vendor specific
Short circuit / overload at port 5 pin 4	0x8CAA	Error	Vendor specific
Short circuit / overload at port 5 pin 2*	0x8CAB	Error	Vendor specific
Short circuit / overload at port 6 pin 4	0x8CAC	Error	Vendor specific
Short circuit / overload at port 6 pin 2*	0x8CAD	Error	Vendor specific
Short circuit / overload at port 7 pin 4	0x8CAE	Error	Vendor specific
Short circuit / overload at port 7 pin 2*	0x8CAF	Error	Vendor specific
Short circuit / overload at port 0 pin 1	0x8CD0	Error	Vendor specific
Short circuit / overload at port 1 pin 1	0x8CD1	Error	Vendor specific
Short circuit / overload at port 2 pin 1	0x8CD2	Error	Vendor specific
Short circuit / overload at port 3 pin 1	0x8CD3	Error	Vendor specific
Short circuit / overload at port 4 pin 1	0x8CD4	Error	Vendor specific
Short circuit / overload at port 5 pin 1	0x8CD5	Error	Vendor specific
Short circuit / overload at port 6 pin 1	0x8CD6	Error	Vendor specific
Short circuit / overload at port 7 pin 1	0x8CD7	Error	Vendor specific

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