

EPS Software Reference Manual



8CHANNEL ANALOG INPUT MODULE

EPS-AI08H (v1.00)

MAY 2015
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1. EtherCAT Object

1.1 PDO Mapping

Index	Type	Value	Name	Bit Len	Data Type
0x1A00	AI Ch.0	0x6000 : 01	Underrange	1	BOOL
		0x6000 : 02	Overrange	1	BOOL
		0x6000 : 03	Limit1	2	BIT2
		0x6000 : 04	Limit2	2	BIT2
		0x6000 : 05	Error	1	BOOL
		-	Reserved	7	-
		0x6000 : 15	TxPDO State	1	BOOL
		0x6000 : 16	TxPDO Toggle	1	BOOL
		0x6000 : 17	Value	32	INT32
0x1A01	AI Ch.1	-	-	-	-
0x1A02	AI Ch.2	-	-	-	-
0x1A03	AI Ch.3	-	-	-	-
0x1A04	AI Ch.4	-	-	-	-
0x1A05	AI Ch.5	-	-	-	-
0x1A06	AI Ch.6	-	-	-	-
0x1A07	AI Ch.7	-	-	-	-
0x1A10	Board Temp	0x6100 : 00	Value	32	UINT32

▣ 1.2 Standard SDO Object

Index	SubIndex	Name	Value	Data Type	Flags
0x1000	-	Device type	0x012C1389	UINT32	RO
0x1008	-	Device name	EPS-AI08IH	STRING	RO
0x1009	-	Hardware version	-	STRING	RO
0x100A	-	Software version	-	STRING	RO
0x1018	0	Identity	4	UINT8	RO
	1	Vendor ID	0xAAAAAAAA	UINT32	RO
	2	Product code	0x50321248	UINT32	RO
	3	Revision	-	UINT32	RO
	4	Serial number	-	UINT32	RO
0x1C00	0	Sync manager type	4	UINT8	RO
	1	SubIndex 001	0x01(1)	UINT32	RO
	2	SubIndex 002	0x02(2)	UINT32	RO
	3	SubIndex 003	0x03(3)	UINT32	RO
	4	SubIndex 004	0x04(4)	UINT32	RO
0x1C12	0	RxPDO assign	0	UINT8	RO
0x1C13	0	TxPDO assign	4	UINT8	RO
	1	SubIndex 001	0x1A00	UINT16	RO
	2	SubIndex 002	0x1A01	UINT16	RO
	3	SubIndex 003	0x1A02	UINT16	RO
	4	SubIndex 004	0x1A03	UINT16	RO
	5	SubIndex 005	0x1A04	UINT16	RO
	6	SubIndex 006	0x1A05	UINT16	RO
	7	SubIndex 007	0x1A06	UINT16	RO
	8	SubIndex 008	0x1A07	UINT16	RO
	9	SubIndex 009	0x1A10	UINT16	RO
0x1A0n (n = 0~7)	0	TxPDO Mapping	9	UINT8	RO
	1	SubIndex 001	0x6000:01, 1	UINT32	RO
	2	SubIndex 002	0x6000:02, 1	UINT32	RO
	3	SubIndex 003	0x6000:03, 2	UINT32	RO
	4	SubIndex 004	0x6000:04, 2	UINT32	RO
	5	SubIndex 005	0x6000:05, 1	UINT32	RO
	6	SubIndex 006	0x0000:00, 0	UINT32	RO
	7	SubIndex 007	0x6000:0E, 1	UINT32	RO
	8	SubIndex 008	0x6000:0F, 1	UINT32	RO
	9	SubIndex 009	0x6000:11, 32	UINT32	RO
0x1A10	0	TxPDO Mapping	1	UINT8	RO
	1	Board Temp	0x6100:00, 32	UINT32	RO

▣ 1.3 Specific SDO Object
▶ 0x60n0 Analog Channel Input (n = 0~7)

Index	SubIndex	Name	Value	Data Type	Flags	
0x60n0 (n = 0~7)	0	Analog Input	17	UINT8	RO	
	1	Underrange	1 전류 : AD Value 4mA이하 전압 : AD Value 0.1V이하	BOOL	RO	
	2	Overrange	1 전류 : AD Value 20mA이상 전압 : AD Value 5V이상	BOOL	RO	
	3	Limit1	0	사용안함	BIT4	RO
			1	AD Value > Limit 1		
			2	AD Value < Limit 1		
			3	AD Value = Limit 1		
	4	Limit2	0	사용안함	BIT4	RO
			1	AD Value > Limit 1		
			2	AD Value < Limit 1		
			3	AD Value = Limit 1		
5	Error	1 Data Read 실패	BOOL	RO		
E	TxPDO State	AD Chip 동작 상태 반환	BOOL	RO		
F	TxPDO Toggle	AD Data Update시 Toggle	BOOL	RO		
11	Value	입력 받은 전압/전류 값을 표시합니다. Ex) 전압 : Value 2010 = 2.01V 전류 : Value 12340 = 12.34mA	UINT32	RO		

▶ 0x6100 Board Temp

Index	SubIndex	Name	Value	Data Type	Flags
0x6100	0	Board Temp	장치 내부 온도를 표시합니다. Ex) Value 4321 = 43.21°C	UINT32	RO

▶ 0x80n0 Analog Input Channel Setting (n = 0~7)

Index	SubIndex	Name	Value		Data Type	Flags	
0x80n0 (n = 0~7)	0	AI Setting	21		UINT8	RO	
	1	Enable Limit1	Limit 1 Enable		BOOL	RW	
	2	Enable Limit2	Limit 2 Enable		BOOL	RW	
	3	Enable User Offset	User Offset 사용 여부		BOOL	RW	
	9	Analog Type	0	Voltage Type		BOOL	RW
			1	Current Type			
	11	Limit1 Value	Limit1 값		INT32	RW	
	12	Limit2 Value	Limit2 값		INT32	RW	
13	User Offset	User Offset 값		INT32	RW		

▶ 0xF001 Setting Save Flag

Index	SubIndex	Name	Value		Data Type	Flags
0xF001	-	Setting Save Flag	AD Setting 정보를 Flash에 저장합니다.		UINT16	RO
			0 → 1	저장 실행		

Software Reference Manual Update List

No.	Version	Date	Changes in
1	1.00	2015.05.27	First Edition

SRC Reference Manual

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2015. 05. 27.



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