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Process Data (PDO)

x Process Data

- ProcessData

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Topology

Net Info

Slave Info

ProcessData

[0200h] MASTER-DC

[0005h] MADHT1505BA1

[0006h] MADHT1505BA1

[0007h] Ezi-SERVO2 EtherCAT

[0008h] Ezi-SERVO2 EtherCAT

[0001h] MADHT1505BA1

[0002h] MADHT1505BA1

SyncManager

SM	Size	Type
0	256	MBoxOut
1	256	MBoxIn
2	19	Outputs
3	25	Inputs

PDO Assignment

	Index	Size	Type
☐	0x1600		
☒	0x1601		
☐	0x1602		
☐	0x1603		

PDO List

Index	Size	Name	SM
0x1600	9	Receive PDO mapping 1	
0x1601	19	Receive PDO mapping 2	2
0x1602	15	Receive PDO mapping 3	
0x1603	21	Receive PDO mapping 4	
0x1A00	23	Transmit PDO mapping 1	
0x1A01	25	Transmit PDO mapping 2	3
0x1A02	25	Transmit PDO mapping 3	

PDO Content (0x1A00)

Index	Size	Name	Type
0x6040:00	2	Controlword	UINT
0x6060:00	1	Modes of operation	SINT
0x6071:00	2	Target torque	INT
0x607A:00	4	Target position	DINT
0x6080:00	4	Max motor speed	UDINT
0x60B8:00	2	Touch probe function	UINT

Index

Addr

Apply AutoAddress To Servo

☒ Apply to the same product.

- SyncManager “MBoxOut”, “MBoxIn”¹⁾
- SyncManager

SyncManager				PDO List			
SM	Size	Type		Index	Size	Name	SM
0	256	MBoxOut		0x1600	9	Receive PDO mapping 1	2
1	256	MBoxIn		0x1601	19	Receive PDO mapping 2	
2	9	Outputs		0x1602	15	Receive PDO mapping 3	
3	25	Inputs		0x1603	21	Receive PDO mapping 4	
				0x1A00	23	Transmit PDO mapping 1	
				0x1A01	25	Transmit PDO mapping 2	3
				0x1A02	25	Transmit PDO mapping 3	
				0x1A03	25	Transmit PDO mapping 4	

PDO Assignment				PDO Content (0x1A00)			
☒	0x1600			Index	Size	Name	Type
☐	0x1601			0x6040:00	2	Controlword	UINT
☐	0x1602			0x6060:00	1	Modes of operation	SINT
☐	0x1603			0x607A:00	4	Target position	DINT
				0x60B8:00	2	Touch probe function	UINT

- “Ouputs”²⁾ (Process Data)
- 4 PDO (RxPDO)가 0x1600 PDO가 Controlword, Modesof operation, Target position, TouchProbe function, Torque, Torque
- PDO Assignment RxPDO

SyncManager

SM	Size	Type
0	256	MBoxOut
1	256	MBoxIn
2	19	Outputs
3	23	Inputs

PDO List

Index	Size	Name	SM
0x1600	9	Receive PDO mapping 1	
0x1601	19	Receive PDO mapping 2	2
0x1602	15	Receive PDO mapping 3	
0x1603	21	Receive PDO mapping 4	
0x1A00	23	Transmit PDO mapping 1	3
0x1A01	25	Transmit PDO mapping 2	
0x1A02	25	Transmit PDO mapping 3	
0x1A03	25	Transmit PDO mapping 4	

PDO Assignment

☐	0x1600	
☒	0x1601	
☐	0x1602	
☐	0x1603	

PDO Content (0x1A00)

Index	Size	Name	Type
0x6040:00	2	Controlword	UINT
0x6060:00	1	Modes of operation	SINT
0x6071:00	2	Target torque	INT
0x607A:00	4	Target position	DINT
0x6080:00	4	Max motor speed	UDINT
0x60B8:00	2	Touch probe function	UINT
0x60FF:00	4	Target velocity	DINT

- PDO 0x1601, 0x1601 PDO Content 가
 - 0x1600 Target torque Max motor speed가 가
 - , Torque 가 가

SyncManager				PDO List				
SM	Size	Type		Index	Size	Name		SM
0	256	MBoxOut		0x1600	9	Receive PDO mapping 1		2
1	256	MBoxIn		0x1601	19	Receive PDO mapping 2		
2	9	Outputs		0x1602	15	Receive PDO mapping 3		
3	25	Inputs		0x1603	21	Receive PDO mapping 4		
				0x1A00	23	Transmit PDO mapping 1		
				0x1A01	25	Transmit PDO mapping 2		3
				0x1A02	25	Transmit PDO mapping 3		
				0x1A03	25	Transmit PDO mapping 4		

PDO Assignment			PDO Content (0x1A00)				
☐	0x1A00		Index	Size	Name		Type
☒	0x1A01		0x603F:00	2	Error code		UINT
☐	0x1A02		0x6041:00	2	Statusword		UINT
☐	0x1A03		0x6061:00	1	Modes of operation display		SINT
			0x6064:00	4	Position actual value		DINT
			0x606C:00	4	Velocity actual value		DINT
			0x6077:00	2	Torque actual value		INT
			0x60B9:00	2	Touch probe status		UINT

- “Inputs”³⁾ (Process Data)
- , 4 PDO (TxPDO)가 0x1A01 PDO가
 - o 0x1A01 PDO Content
 - o , PDO Content Torque actual value torque
- PDO List 가 PDO List list , PDO Assignment
- “Apply to the same product”⁴⁾

Info

- RxPDO TxPDO xml

1)

2)

3)

4)

VendorID ProductCode가

