

PDO MAP

Intro

ESI File

.....

.....

.....

1

1

1

PDO MAP

x ESI                      PDO Map

Intro

Configurator

SetupMainAddressConfig

ScanScanErrorDownloadUploadSaveLoadCompareNet 0TopologyNetInfoSlaveInfoProcessDataSlotInfo

Scanned List

Slave Count 3  
ECS #00 [02FFh] MASTER-DC  
#01 [0001h] R88D-KN01H-ECT  
#02 [0002h] R88D-KN01H-ECT

SyncManager

	SM	Size	Type
<input checked="" type="checkbox"/>	0	256	MBoxOut
<input checked="" type="checkbox"/>	1	256	MBoxIn
<input checked="" type="checkbox"/>	2	12	Outputs
<input checked="" type="checkbox"/>	3	28	Inputs

PDO List

Index	Size	Name	SM
0x1600	8	1st receive PDO Mapping	
0x1701	12	250th receive PDO Mapping	2
0x1702	19	259th receive PDO Mapping	
0x1703	17	260th receive PDO Mapping	
0x1704	23	261th receive PDO Mapping	
0x1705	19	262th receive PDO Mapping	
0x1A00	22	1st transmit PDO Mapping	

PDO Assignment

<input type="checkbox"/>	0x1600	
<input checked="" type="checkbox"/>	0x1701	
<input type="checkbox"/>	0x1702	
<input type="checkbox"/>	0x1703	
<input type="checkbox"/>	0x1704	
<input type="checkbox"/>	0x1705	

☐ Apply All

PDO Contents (0x1701)

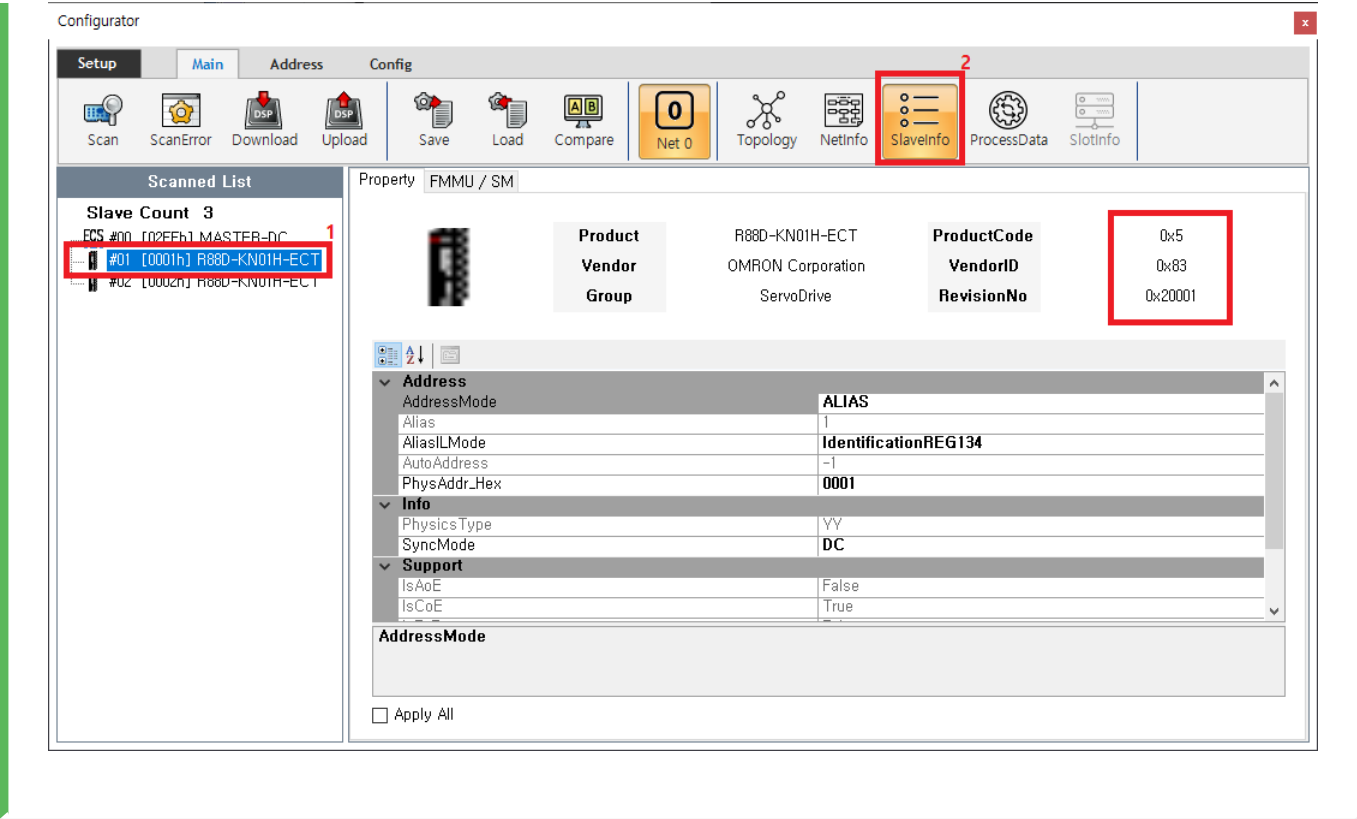
Index	Size	Name	Type
0x6040:00	2	Controlword	UINT
0x607A:00	4	Target position	DINT
0x60B8:00	2	Touch probe function	UINT
0x60FE:01	4	Physical outputs	UDINT

- SCAN
    - 'PDO Assignment' 가 ESI 1)
  - 'PDO Contents'
    - Map(0x1702)
  - SCAN
    - esi
    - ESI
- 'PDO Assignment' , 'Target Torque' 'Current Torque' PDO

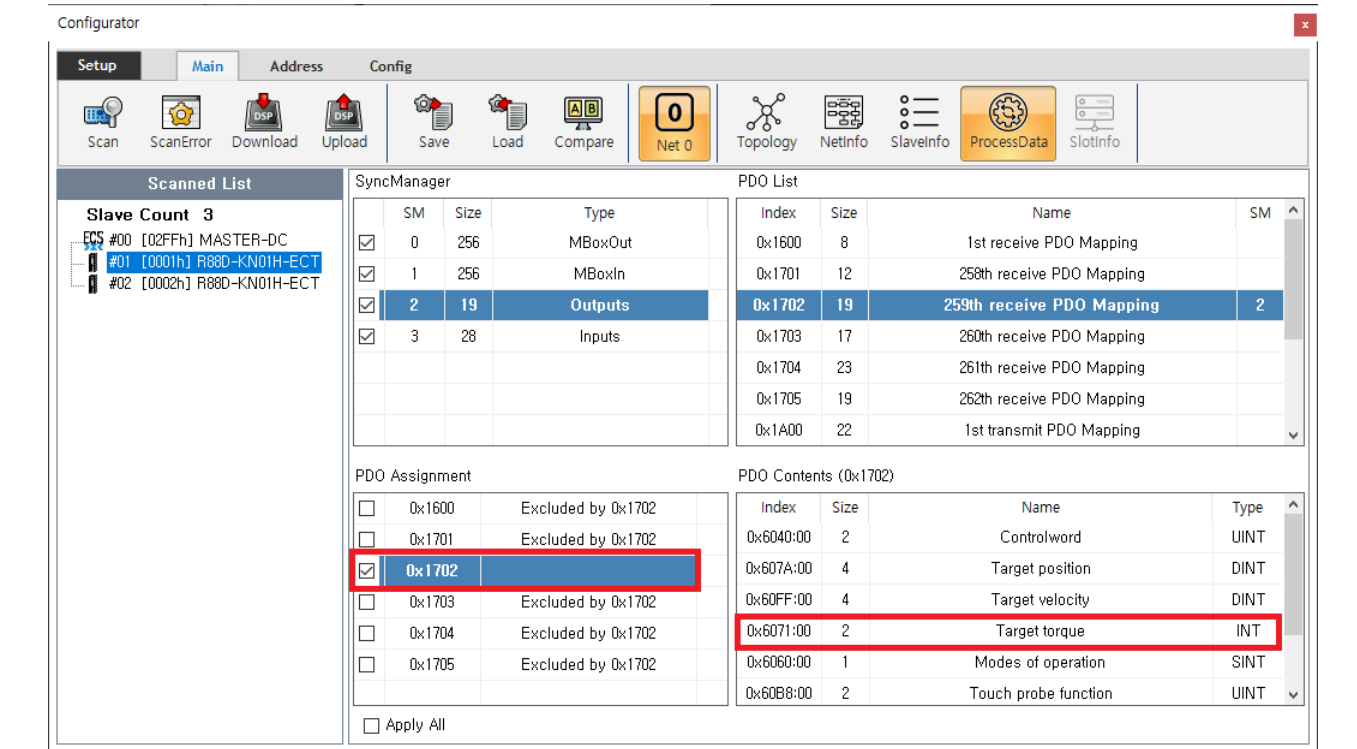
ESI File

- OMRON
- Torque

PDO Map



- 'SlaveInfo'      ProductCode, RevisionNo      .



- 'ProcessData'      PDO Map      .  
    ○      'Target Troque'      Map      : 0x1702

```

1  <?xml version="1.0" encoding="utf-8"?>
2  <EtherCATInfo Version="1.4" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLoca
3  <Vendor FileVersion="100">
4    <!--1.00:NewRelease-->
5    <Id>#x83</Id>
6    <Name LcId="1033">OMRON Corporation</Name>
7    <Name LcId="1041">オムロン株式会社</Name>
8    <ImageData6x14>424DD6020000000000003600000028000000100000000E0000000100180000000000A0020000000000
9  </Vendor>
10 <Descriptions>
11 <Groups>
12 <Group SortOrder="100">
13 <Type>ServoDrive</Type>
14 <Name LcId="1033">Servo Drives</Name>
15 <Name LcId="1041">サロボドライブ</Name>
16 <ImageData6x14>424DD6020000000000003600000028000000100000000E0000000100180000000000A002000
17 </Group>
18 </Groups>
19 <Devices>
20 <Device Invisible="0" Physics="YY">
8135 <Device Invisible="0" Physics="YY">
16250 <Device Invisible="0" Physics="YY">
24365 <Device Invisible="0" Physics="YY">
32480 <Device Invisible="0" Physics="YY">
32481 <Type ProductCode="#x00000005" RevisionNo="#x00020001">R88D-KN01H-ECT</Type>
32482 <HideType ProductCode="#x00000005" RevisionNo="#x00020001">R88D-KN01H-ECT</HideType>
32483 <HideType ProductCode="#x00000005" RevisionNo="#x00020001">R88D-KN01H-ECT</HideType>
32484 <Name LcId="1033"><![CDATA[R88D-KN01H-ECT G5 Series ServoDrive/Motor]]></Name>
32485 <Name LcId="1041"><![CDATA[R88D-KN01H-ECT G5 シリゾ サロボドライブ/モータ]]></Name>
32486 <Comment LcId="1033">200V/100W ServoDrive</Comment>
32487 <Comment LcId="1041">200V/100W サロボドライブ</Comment>
32488 <URL LcId="1033">http://www.ia.omron.com/</URL>
32489 <URL LcId="1041">http://www.fa.omron.co.jp/</URL>
32490 <Info>
32491 <StateMachine>
32492 <Timeout>

```

- XML Editor<sup>2)</sup> esi , ProductCode RevisionNo가

XML Editor view showing the configuration for the R88D-KN01H-ECT servo drive. The XML is expanded to show the <Devices> section, specifically the <Device> element for the servo drive. The XML includes details such as ProductCode, RevisionNo, Name, Comment, URL, and Info. The XML is highlighted in blue.

On the right side, there are two tables: "PDO List" and "PDO Assignment".

**PDO List**

Index	Size	Type
0x1600	8	MBBoxOut
0x1701	12	MBBoxIn
0x1702	19	MBBoxIn
0x1703	17	MBBoxIn
0x1704	23	MBBoxIn
0x1705	19	MBBoxIn
0x1A00	22	MBBoxIn

**PDO Assignment**

Index	Size	Type
0x1600	8	MBBoxOut
0x1701	12	MBBoxIn
0x1702	19	MBBoxIn
0x1703	17	MBBoxIn
0x1704	23	MBBoxIn
0x1705	19	MBBoxIn

The XML configuration for the servo drive includes the following elements:

```

<Device Invisible="0" Physics="YY">
  <Type ProductCode="#x00000005" RevisionNo="#x00020001">R88D-KN01H-ECT</Type>
  <HideType ProductCode="#x00000005" RevisionNo="#x00020001">R88D-KN01H-ECT</HideType>
  <Name LcId="1033"><![CDATA[R88D-KN01H-ECT G5 Series ServoDrive/Motor]]></Name>
  <Name LcId="1041"><![CDATA[R88D-KN01H-ECT G5 シリゾ サロボドライブ/モータ]]></Name>
  <Comment LcId="1033">200V/100W ServoDrive</Comment>
  <Comment LcId="1041">200V/100W サロボドライブ</Comment>
  <URL LcId="1033">http://www.ia.omron.com/</URL>
  <URL LcId="1041">http://www.fa.omron.co.jp/</URL>
  <Info>
    <StateMachine>
    <Timeout>

```

The XML configuration for the servo drive includes the following elements:

```

<Device Invisible="0" Physics="YY">
  <Type ProductCode="#x00000005" RevisionNo="#x00020001">R88D-KN01H-ECT</Type>
  <HideType ProductCode="#x00000005" RevisionNo="#x00020001">R88D-KN01H-ECT</HideType>
  <Name LcId="1033"><![CDATA[R88D-KN01H-ECT G5 Series ServoDrive/Motor]]></Name>
  <Name LcId="1041"><![CDATA[R88D-KN01H-ECT G5 シリゾ サロボドライブ/モータ]]></Name>
  <Comment LcId="1033">200V/100W ServoDrive</Comment>
  <Comment LcId="1041">200V/100W サロボドライブ</Comment>
  <URL LcId="1033">http://www.ia.omron.com/</URL>
  <URL LcId="1041">http://www.fa.omron.co.jp/</URL>
  <Info>
    <StateMachine>
    <Timeout>

```

- '<RxPdo Fixed="0">' 'SyncManager' Outputs

39743

<Fmmu>Outputs</Fmmu>

39744

<Fmmu>Inputs</Fmmu>

39745

<Sm MinSize="40" MaxSize="256" Default

39746

<Sm MinSize="40" MaxSize="256" Default

39747

<Sm MaxSize="24" DefaultSize="12" Sta

39748

<Sm MaxSize="30" DefaultSize="28" Sta

39749

<RxPdo Fixed="0">

39783

<RxPdo Fixed="1">

39825

<RxPdo Fixed="1" Sm="2">

39891

<RxPdo Fixed="1">

39957

<RxPdo Fixed="1">

40039

<RxPdo Fixed="1">

40113

<TxPdo Fixed="0">

40178

<TxPdo Fixed="1" Sm="3">

40259

<TxPdo Fixed="1">

40340

<TxPdo Fixed="1">

40429

<TxPdo Fixed="1">

40518

<TxPdo Fixed="1">

PDO Assignment

<input type="checkbox"/>	0x1600	Excluded by 0x1702
<input type="checkbox"/>	0x1701	Excluded by 0x1702
<input checked="" type="checkbox"/>	0x1702	
<input type="checkbox"/>	0x1703	Excluded by 0x1702
<input type="checkbox"/>	0x1704	Excluded by 0x1702
<input type="checkbox"/>	0x1705	Excluded by 0x1702

PDO Contents (0x1702)

Index	Size	
0x6040:00	2	
0x607A:00	4	Ta
0x60FF:00	4	Ta
0x6071:00	2	T
0x6060:00	1	Mod

• 'Sm="2"' 가 .

19

<Devices>

20

<Device Invisible="0" Physics="YY">

8135

<Device Invisible="0" Physics="YY">

16250

<Device Invisible="0" Physics="YY">

24365

<Device Invisible="0" Physics="YY">

32480

<Device Invisible="0" Physics="YY">

32481

<Type ProductCode="#x00000005" RevisionNo="#x00020001">R88D-KN01H-ECT</Type>

32482

<HideType ProductCode="#x00000005" Re

32483

<HideType ProductCode="#x00000005" Re

32484

<Name LcId="1033"><![CDATA[R88D-KN01H

32485

<Name LcId="1041"><![CDATA[R88D-KN01H

32486

<Comment LcId="1033">200V/100W Servo

32487

<Comment LcId="1041">200V/100W サーボ

32488

<URL LcId="1033">http://www.ia.omron

32489

<URL LcId="1041">http://www.fa.omron

32490

<Info>

32515

<GroupType>ServoDrive</GroupType>

32516

<Profile>

39743

<Fmmu>Outputs</Fmmu>

39744

<Fmmu>Inputs</Fmmu>

39745

<Sm MinSize="40" MaxSize="256" Default

39746

<Sm MinSize="40" MaxSize="256" Default

39747

<Sm MaxSize="24" DefaultSize="12" Sta

39748

<Sm MaxSize="30" DefaultSize="28" Sta

39749

<RxPdo Fixed="0">

39783

<RxPdo Fixed="1">

39825

<RxPdo Fixed="1" Sm="2">

39891

<RxPdo Fixed="1">

39957

<RxPdo Fixed="1">

40039

<RxPdo Fixed="1">

40113

<TxPdo Fixed="0">

40178

<TxPdo Fixed="1" Sm="3">

40259

<TxPdo Fixed="1">

40340

<TxPdo Fixed="1">

40429

<TxPdo Fixed="1">

40518

<TxPdo Fixed="1">

40531

<Mailbox DataLinkLayer="1">

40532

<CoE SdoInfo="1" PdoAssign="1" PdoConfig="1" CompleteAccess="0" SegmentedSdo="1" DiagHistory="1">

40533

<InitCmd>

SyncManager

SM	Size	Type
<input checked="" type="checkbox"/>	0	256 MBoxOut
<input checked="" type="checkbox"/>	1	256 MBoxIn
<input checked="" type="checkbox"/>	2	19 Outputs
<input checked="" type="checkbox"/>	3	28 Inputs

PDO List

Index	Size	
0x1600	8	1st re
0x1701	12	258th r
0x1702	19	259th re
0x1703	17	260th r
0x1704	23	261th r
0x1705	19	262th r
0x1A00	22	1st tra

PDO Assignment

<input type="checkbox"/>	0x1600	Excluded by 0x1702
<input type="checkbox"/>	0x1701	Excluded by 0x1702
<input checked="" type="checkbox"/>	0x1702	
<input type="checkbox"/>	0x1703	Excluded by 0x1702
<input type="checkbox"/>	0x1704	Excluded by 0x1702
<input type="checkbox"/>	0x1705	Excluded by 0x1702

PDO Contents (0x1702)

Index	Size	
0x6040:00	2	
0x607A:00	4	T
0x60FF:00	4	T
0x6071:00	2	T
0x6060:00	1	Mod
0x60B8:00	2	Touc

• 'Sm="2"' 가 , 가 .

```

19      <Devices>
20      <Device Invisible="0" Physics="YY">
8135    <Device Invisible="0" Physics="YY">
16250   <Device Invisible="0" Physics="YY">
24365   <Device Invisible="0" Physics="YY">
32480   <Device Invisible="0" Physics="YY">
32481   <Type ProductCode="#x00000005" RevisionNo="#x00020001">R88D-KN01H-ECT</Type>
32482   <HideType ProductCode="#x00000005" RevisionNo="#x00010000">R88D-KN01H-ECT</HideType>
32483   <HideType ProductCode="#x00000005" RevisionNo="#x00020000">R88D-KN01H-ECT</HideType>
32484   <Name LcId="1033"><![CDATA[R88D-KN01H-ECT G5 Series ServoDrive(Motor)]]></Name>
32485   <Name LcId="1041"><![CDATA[R88D-KN01H-ECT G5 シリロズ サロボドライブ/モロタ]]></Name>
32486   <Comment LcId="1033">200V/100W ServoDrive</Comment>
32487   <Comment LcId="1041">200V/100W サロボドライブ</Comment>
32488   <URL LcId="1033">http://www.ia.omron.co.jp</URL>
32489   <URL LcId="1041">http://www.fa.omron.co.jp</URL>
32490   <Info>
32515   <GroupType>ServoDrive</GroupType>
32516   <Profile>
39743   <Fnmnu>Outputs</Fnmnu>
39744   <Fnmnu>Inputs</Fnmnu>
39745   <Sm MinSize="40" MaxSize="256" DefaultSize="12" StartSize="12">
39746   <Sm MinSize="40" MaxSize="256" DefaultSize="12" StartSize="12">
39747   <Sm MaxSize="24" DefaultSize="12" StartSize="12">
39748   <Sm MaxSize="30" DefaultSize="28" StartSize="12">
39749   <RxPdo Fixed="0">
39783   <RxPdo Fixed="1" Sm="2">
39825   <RxPdo Fixed="1">
39891   <RxPdo Fixed="1">
39957   <RxPdo Fixed="1">
40039   <RxPdo Fixed="1">
40113   <TxPdo Fixed="0">
40178   <TxPdo Fixed="1" Sm="3">
40259   <TxPdo Fixed="1">
40340   <TxPdo Fixed="1">
40429   <TxPdo Fixed="1">
40518   <TxPdo Fixed="1">
40531   <Mailbox DataLinkLayer="1">
40532   <CoE SdoInfo="1" PdoAssign="1" PdoData="1">
40533   <InitCmd>

```

SyncManager

SM	Size	Type
<input checked="" type="checkbox"/> 0	256	MBoxOut
<input checked="" type="checkbox"/> 1	256	MBoxIn
<input checked="" type="checkbox"/> 2	12	Outputs
<input checked="" type="checkbox"/> 3	28	Inputs

PDO List

Index	Size
0x1600	8
0x1701	12
0x1702	19
0x1703	17
0x1704	23
0x1705	19
0x1A00	22

PDO Assignment

<input type="checkbox"/> 0x1A00	
<input checked="" type="checkbox"/> 0x1B01	
<input type="checkbox"/> 0x1B02	
<input type="checkbox"/> 0x1B03	
<input type="checkbox"/> 0x1B04	
<input type="checkbox"/> 0x1BFF	

PDO Contents (0x1B01)

Index	Size
0x603F:00	2
0x6041:00	2
0x6064:00	4
0x6077:00	2
0x60F4:00	4
0x60B9:00	2

- '<TxPdo Fixed="0">' 'SyncManager' Inputs
- 'Sm="3"' 71 .
- .
- Configurator SCAN .

1)

.xml

2)

Notepad, Notepad++, Ultra Editor

From:

<http://comizoa.co.kr/info/> - -

Permanent link:

[http://comizoa.co.kr/info/platform:ethercat:70\\_users\\_guide:10\\_howto:10\\_pdomapchange](http://comizoa.co.kr/info/platform:ethercat:70_users_guide:10_howto:10_pdomapchange)

Last update: **2021/06/23 16:37**