

## MV800 EtherCAT

R33011051

V00

### 1

#### 1.1

#### 1.2

MV810-ECAT02

MV800

##### 1.2.1

|   |         |     |    |  |
|---|---------|-----|----|--|
| 1 | PDO     | SDO |    |  |
| 2 | SDO     |     |    |  |
| 3 | 100Mbps |     |    |  |
| 4 |         |     |    |  |
| 5 | SM      | 1ms | DC |  |
| 6 | 4       | PDO |    |  |

##### 1.2.2

| EtherCAT |     | RJ45                                                                                                                                                                           | IN  | OUT |
|----------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|
|          |     |                                                                                                                                                                                |     |     |
|          |     | CAT5                                                                                                                                                                           |     |     |
|          |     | 500VDC                                                                                                                                                                         |     |     |
|          |     | EtherCAT                                                                                                                                                                       |     |     |
|          |     | 100BASE-TX (IEEE802.3)                                                                                                                                                         |     |     |
|          |     | 100M                                                                                                                                                                           |     |     |
|          |     | 100Mbps Auto-Defect                                                                                                                                                            |     |     |
|          |     | MV810-ECAT02                                                                                                                                                                   |     |     |
|          | XML | MV800_ECAT_CoE_V2.00.xml                                                                                                                                                       |     |     |
|          | SDO | SDO                                                                                                                                                                            | SDO |     |
|          | PDO | PDO                                                                                                                                                                            |     |     |
|          |     | 3.3VDC                                                                                                                                                                         |     |     |
|          |     | 500VDC                                                                                                                                                                         |     |     |
|          |     | 1W                                                                                                                                                                             |     |     |
|          |     | 25g                                                                                                                                                                            |     |     |
|          |     | ESD(IEC 61800-5-1, IEC 6100-4-2)<br>EFT(IEC 61800-5-1, IEC 6100-4-4)<br>Surge Test(IEC 61800-5-1, IEC 6100-4-5)<br>Conducted Susceptibility<br>Test(IEC61800-5-1, IEC6100-4-6) |     |     |

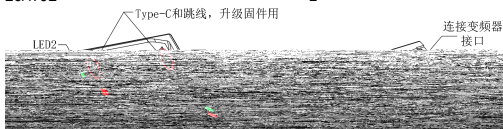
|                                |   |            |
|--------------------------------|---|------------|
|                                | / | -10 50 90% |
|                                | / | -25 70 95% |
| GB4798.3-2007 GB12668.501—     |   |            |
| 2013/IEC61800-5-1 IEC60068-2-6 |   |            |

## 1.3

### 1.3.1

MV810-ECAT02

1



1

RJ45

### 1.3.2

EtherCAT OUT  
MV810-ECAT02

RJ45 2 RJ45 IN

| 1 | TX+ | Transmit Data+ | + |
|---|-----|----------------|---|
| 2 | TX- | Transmit Data- | - |
| 3 | RX+ | Receive Data+  | + |
| 4 | N/C |                |   |
| 5 | N/C |                |   |
| 6 | RX- | Receive Data-  | - |
| 7 | N/C |                |   |
| 8 | N/C |                |   |

### 1.3.3 EtherCAT

MV810-ECAT02

MV800

MV800

|        | / |          |
|--------|---|----------|
| P02.02 | 2 |          |
| P02.03 | 3 | EtherCAT |
| P02.05 | 8 | EtherCAT |

### 1.3.4

EtherCAT



## 2

### 2.1

| MV810-ECAT02 | 75*60*24mm |  |
|--------------|------------|--|
|              | A4*1       |  |

### 2.2

MV810-ECAT02

#### 2.2.1 EtherCAT

MV800

1 2 / B  
1 PG  
2 PN ECAT I/O

#### 2.2.2 EtherCAT

MV810 EtherCAT

#### 2.2.3 EtherCAT

ECAT

1

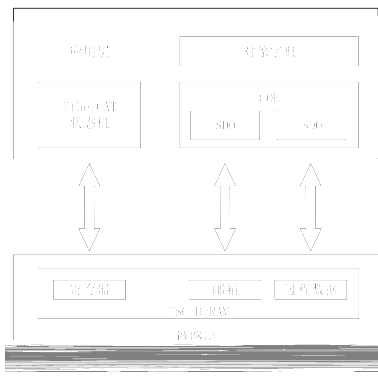
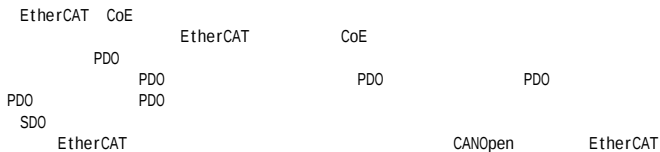
2-a

2

2-i m "



## 3 EtherCAT



## 4 PDO

MV810-ECAT02      PDO      16bit  
 INT16      UINT16  
 RxPDO

| /       |  |       |            |   |
|---------|--|-------|------------|---|
| 6040h/0 |  | Bit0: | 0          | 1 |
|         |  | Bit1: | 0          | 1 |
|         |  | Bit2: | 0          | 1 |
|         |  | Bit3: | 0          | 1 |
|         |  | Bit4: | 0          | 1 |
|         |  | Bit5: | 0          | 1 |
|         |  | Bit6: | 0          | 1 |
|         |  | Bit7: | 0          | 1 |
| 2100h/0 |  | :0.1% | 0.0 300.0% |   |
| 2101h/0 |  | :0.1% | 0 3000     |   |
|         |  |       | 0 300.0%   |   |

|         |      |                                             |                                |  |
|---------|------|---------------------------------------------|--------------------------------|--|
| 2102h/0 |      | :0.01Hz                                     | 0.00 599.00Hz<br>0 59900       |  |
| 2103h/0 |      | :0.01Hz                                     | 0.00 599.00Hz                  |  |
| 2104h/0 | VF   | :1V                                         | 0 1000V                        |  |
| 2105h/0 | D0   | Bit0 D01<br>Bit1 D02<br>Bit2 D03<br>Bit3 R0 | 0 1<br>0 1<br>0 1<br>0 1       |  |
| 2106h/0 | A01  | 0.01%                                       | 0.00 100.00%<br>0 10000        |  |
| 2107h/0 | HD01 | :0.001kHz                                   | 0.000 50.000kHz<br>0 50000     |  |
| 2108h/0 | HD02 | :0.001kHz                                   | 0.000 50.000kHz                |  |
| 2109h/0 | PID  | :0.1%                                       | -100.0 100.0%<br>( -1000 1000) |  |
| 210Ah/0 | PID  | :0.1%                                       | -100.0 100.0%                  |  |
| 210Bh/0 |      |                                             |                                |  |
| 210Ch/0 |      | :0.1%                                       | -300.0 300.0%                  |  |
| 210Dh/0 |      | :0.01Hz                                     | 0.00 599.00Hz                  |  |

TxPDO

| /       |      |                                                                                              |                                                                         |  |
|---------|------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|--|
| 6041h/0 |      | Bit0:<br>Bit1:<br>Bit2:<br>Bit3:<br>Bit4:<br>Bit5:<br>Bit6:<br>Bit7:<br>Bit8:<br>Bit9 Bit10: | 0 1<br>0 1<br>0 1<br>0 1<br>0 1<br>0 1<br>0 1 1<br>2<br>0 1<br>0 1<br>2 |  |
| 2200h/0 |      | :0.1A                                                                                        | 0.0 6553.5A<br>0 65535                                                  |  |
| 2201h/0 |      | :1V                                                                                          | 0 65535V                                                                |  |
| 2202h/0 |      | :0.01Hz                                                                                      | 0.00 599.00Hz<br>0 59900                                                |  |
| 2203h/0 |      | :0.1%                                                                                        | -300.0 300.0%<br>-3000 3000                                             |  |
| 2204h/0 |      | :0.1V                                                                                        | 0.0 6553.5V                                                             |  |
| 2205h/0 | DI 1 | Bit0 DI1<br>Bit1 DI2<br>Bit2 DI3                                                             | 0 1<br>0 1<br>0 1                                                       |  |

|         |      |              |                                |  |
|---------|------|--------------|--------------------------------|--|
|         |      | Bit3 DI4     | 0 1                            |  |
| 2206h/0 | DI 2 | Bit0 DI5     | 0 1                            |  |
|         |      | Bit1 DI6     | 0 1                            |  |
|         |      | Bit2 DI7     | 0 1                            |  |
|         |      | Bit3 DI8     | 0 1                            |  |
| 2207h/0 | DO   | Bit0 DO1     | 0 1                            |  |
|         |      | Bit1 DO2     | 0 1                            |  |
|         |      | Bit2 DO3     | 0 1                            |  |
|         |      | Bit3 RO      | 0 1                            |  |
| 2208h/0 |      | :0.1%        | -300.0 300.0%<br>( -3000 3000) |  |
| 2209h/0 |      | :0.1kW       | 0.0 6553.5kW<br>0 65535        |  |
| 220Ah/0 |      |              |                                |  |
| 603Fh/0 |      | " MV800<br>" |                                |  |

## 5 SDO

|          |     |               |     |  |
|----------|-----|---------------|-----|--|
| EtherCAT | SDO |               |     |  |
|          | SDO | 0x2000 0x2062 | P00 |  |
| P98      |     | " MV810       | "   |  |

## 6

### 6.1 LED

|              |     |   |          |              |
|--------------|-----|---|----------|--------------|
| MV810-ECAT02 | LED | 1 | PCBA LED | LED          |
| PCBA LED     |     |   | LED      | MV810-ECAT02 |
| PCBA LED     | :   |   |          |              |

| LED  |      |         |      |
|------|------|---------|------|
| LED1 |      | ECAT    |      |
|      |      | ECAT    | ECAT |
| LED2 |      | Init    | ECAT |
|      |      | Pre-OP  | ECAT |
|      |      | Safe-OP | ECAT |
|      |      | OP      |      |
| LED3 |      |         |      |
|      | 0.5s |         | 6.2  |
| LED4 |      |         |      |
|      |      |         | ECAT |
|      | 0.5s | ESC     |      |

# MEGMEET

LED :

| LED |  |          |
|-----|--|----------|
|     |  |          |
|     |  |          |
|     |  | EtherCAT |
|     |  |          |

## 6.2

0x2064

EtherCAT

1

8bit

8bit

2

0x0200

P02.00

|        | 0xF1 |
|--------|------|
|        | 0xF4 |
|        | 0xF5 |
|        | 0xF6 |
|        | 0xF7 |
| EEPROM | 0xF8 |

5

518057

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# MEGMEET

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