

The following are the AX58400 EtherCAT Slave Controller SoC Slave Information Interface (SII) Area information for customers to modify the AX58200 EtherCAT Slave Information (ESI) file. Please refer to Section 2.45.4.3 “EEPROM Contents Detailed Descriptions” of AX58400 Datasheet for details of AX58400 ESC Configuration Area definition.

ESC SII Field	Length (Bytes)	Default Value	Descriptions
ESC Configuration Area (EEPROM Byte Offset 0x0D - 0x00)	14	-	Refer to <a href="#">Table 4: AX58400 ESC Configuration Area Table</a> or assigned by customers based on their exact applications
Vendor ID	4	0x00000B95	ASIX's Vendor ID assigned by ETG or assigned by customers based on their own ETG Vendor ID
Product Code	4	-	Refer to <a href="#">Table 2: AX58400 Product Code Field Definition Table</a> , <a href="#">Table 3: AX58400 Recommended Product Code Table</a> or assigned by customers based on their own Product Code
Revision Number	4	-	ASIX assigned revision number or assigned by customers based on their own requirements <b>This field should be increased on the revised firmware or ESI file in Table 5.</b>
Serial Number	4	0x00000000	Assigned an unique Serial Number for each device by vendor 0 if there is no serial number given

Table 1. AX58200 SII (Salve Information Interface) Area Table

The following is an example of AX58400-TSB-1(Test Board) ESI file.

```

<Vendor>
  <Id>#x00000b95</Id>
  <Name>ASIX Electronics Corporation</Name>
  <ImageData16x14>424D3603000000...</ImageData16x14>
</Vendor>

<Devices>
  <Device Physics="YY">
  <Type RevisionNo="#x90000800" RevisionNo="#x00110001">AX58400_GPIO_8Bit_AIO_16Bit</Type>
  <Name>AX58400_GPIO_8Bit_AIO_16Bit</Name>

<Eeprom>
  <ByteSize>2048</ByteSize>
  <ConfigData>050E03440A00000000001A000000</ConfigData>
  <BootStrap>0010800080108000</BootStrap>
</Eeprom>

```

Bit	Description
31:28	9h: AX58400 EtherCAT Slave Controller SoC 8h: AX58200 EtherCAT Slave Controller SoC others: Reserved
27:8	<b>Application Type</b> This field defines the application type. 00000h: No specific/identified application (default) 00001h: Multi-function application 00002h: Digital I/O Control 00003h: Motion/Motor Control 00004h: Sensors Data Acquisition 00005h: Communication Module 00006h: PC Card 00007h: 3-port EtherCAT Junction Slave 00008h: Digital/Analog I/O 00009h: IO-Link Gateway others: Reserved
7:0	<b>Vendor Specific Configuration/Sub-Application Type</b> This field defines the vendor specific requirements or Sub-application type. 00h: No specific requirement (default) others: Reserved

Table 2. AX58400 Product Code Field Definition Table

Board Name	Product Code	Descriptions
AX58400-TSB-1	0x90000800	Digital/Analog I/O
AX58400-TSB-1	0x90000300	Motor Control

Table 3. AX58400 Recommended Product Code Table

ESC Configuration Area	Value	Descriptions
AX58400-TSB-1	050E03440A00000000001A000000	Digital/Analog I/O
AX58400-TSB-1	050E03440A00000000001A000000	Motor Control

Table 4. AX58400 Recommended ESC Configuration Area (EEPROM Byte Offset 0x0D - 0x00) Table

Bit	Description
31:24	Reserved (00h)
23:20	The field is reserved by AX58400 Expansion Board Reference Schematic 0h: No specific requirement (default) 1h: AX58400-EXB-ADIO-1 2h: AX58400-TSB-1 + X-NUCLEO-IHM08M1 others: Reserved
19:16	The field is reserved by AX58400 Evaluation Board Reference Schematic 0h: No specific requirement (default) 1h: AX58400-TSB-1 others: Reserved
15:0	The field is reserved by application firmware version information

Table 5. AX58400 Revision Number Field Definition Table

## Revision History

Revision	Date	Description
0.10	2021/06/21	Preliminary release

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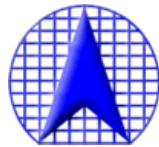
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