

The following are the AX58200 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 2.43.4.2 “Hardware Configuration EEPROM (HWCFGEE)” of AX58200 Datasheet* for details of AX58200 ESC Configuration Area definition.

ESC SII Field	Length (Bytes)	Default Value	Descriptions
ESC Configuration Area (EEPROM Byte Offset 0x0D - 0x00)	14	-	Refer to Table 4: AX58200 ESC Configuration Area Table 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 Table 2: AX58200 Product Code Field Definition Table , Table 3: AX58200 Recommended Product Code Table 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 This field should be increased on the revised firmware or ESI file in Table 5.
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 AX58200-TSB-1(Test/Evaluation Board) ESI file.

```

- <Vendor>
  <Id>#x00000b95</Id> ← Vendor ID
  <Name>ASIX Electronics Corporation</Name>
  <ImageData16x14>424D3603000000000000036000</ImageData16x14>
</Vendor>

- <Devices>
  - <Device Physics="YY"> Revision Number Product Code
    <Type RevisionNo="#x00111000" ProductCode="#x80000800">AX58200_GPIO_8Bit_AIO_16Bit</Type>
    <Name>AX58200_GPIO_8Bit_AIO_16Bit</Name>
  - <Info>

- <Eeprom>
  <ByteSize>2048</ByteSize>
  <ConfigData>050E03440A00000000001A000000</ConfigData> ESC Configuration Area
  <BootStrap>0010800080108000</BootStrap>
</Eeprom>

```

Bit	Description
31:28	8h: AX58200 EtherCAT Slave Controller SoC others: Reserved
27:8	Application Type 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 others: Reserved
7:0	Vendor Specific Configuration/Sub-Application Type This field defines the vendor specific requirements or Sub-application type. 00h: No specific requirement (default) others: Reserved

Table 2. AX58200 Product Code Field Definition Table

Board Name	Product Code	Descriptions
AX58200-TSB-1	0x80000800	Digital/Analog I/O
AX58200-TSB-1	0x80000300	Motor Control
AX58200-EVB-PMDB-1	0x80000300	Robot Servo Driver

Table 3. AX58200 Recommended Product Code Table

ESC Configuration Area	Value	Descriptions
AX58200-TSB-1	050E03440A00000000001A000000	Digital/Analog I/O
AX58200-TSB-1	050E03440A00000000001A000000	Motor Control
AX58200-EVB-PMDB-1	050E03440A00000000001A000000	Robot Servo Driver

Table 4. AX58200 Recommended ESC Configuration Area (EEPROM Byte Offset 0x0D - 0x00) Table

Bit	Description
31:24	Reserved (00h)
23:20	The filed is reserved by AX58200 Expansion Board Reference Schematic 0h: No specific requirement (default) 1h: AX58200-EXB-ADIO-1 2h: AX58200-EXB-SMDB-1 + X-NUCLEO-IHM08M1 others: Reserved
19:16	The filed is reserved by AX58200 Evaluation Board Reference Schematic 0h: No specific requirement (default) 1h: AX58200-TSB-1 2h: AX58200-EVB-PMDB-1 others: Reserved
15:0	The filed is reserved by application firmware version information

Table 5. AX58200 Revision Number Field Definition Table

Revision History

Revision	Date	Description
0.10	2019/12/05	Preliminary release
1.00	2019/12/19	Modified some description in ESI example file.
1.01	2020/03/11	Added “Motor Control” and “Robot Servo Driver” definitions in Table 3 & 4 & 5.

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