

# XMC1100 CPU Card

For XMC1000 Family

## CPU-11A-V1

XMC1100 CPU Card

## Board User's Manual

Revision 2.0, 2013-12-18

Microcontroller

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## Revision History

| Page or Item                    | Subjects (major changes since previous revision) |
|---------------------------------|--------------------------------------------------|
| <b>Revision 2.0, 2013-12-18</b> |                                                  |
| 16,18                           | Change C210 to 4.7uF                             |
|                                 |                                                  |
|                                 |                                                  |
|                                 |                                                  |
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Last Trademarks Update 2011-11-11

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## Introduction

This document describes the features and hardware details of the XMC1100 CPU Card for Arduino™. This board is mounted with ARM® Cortex™-M0 based XMC1100 Microcontroller from Infineon Technologies AG and part of Infineon's XMC1000 offering of Kits.

## 1 Overview

The XMC1100 CPU Card for Arduino™ has two rows of pin headers which fully compatible with Arduino™ shield. Hence, user can buy various Arduino shield boards off-the-shelf to test the capabilities of XMC1100 Microcontroller.

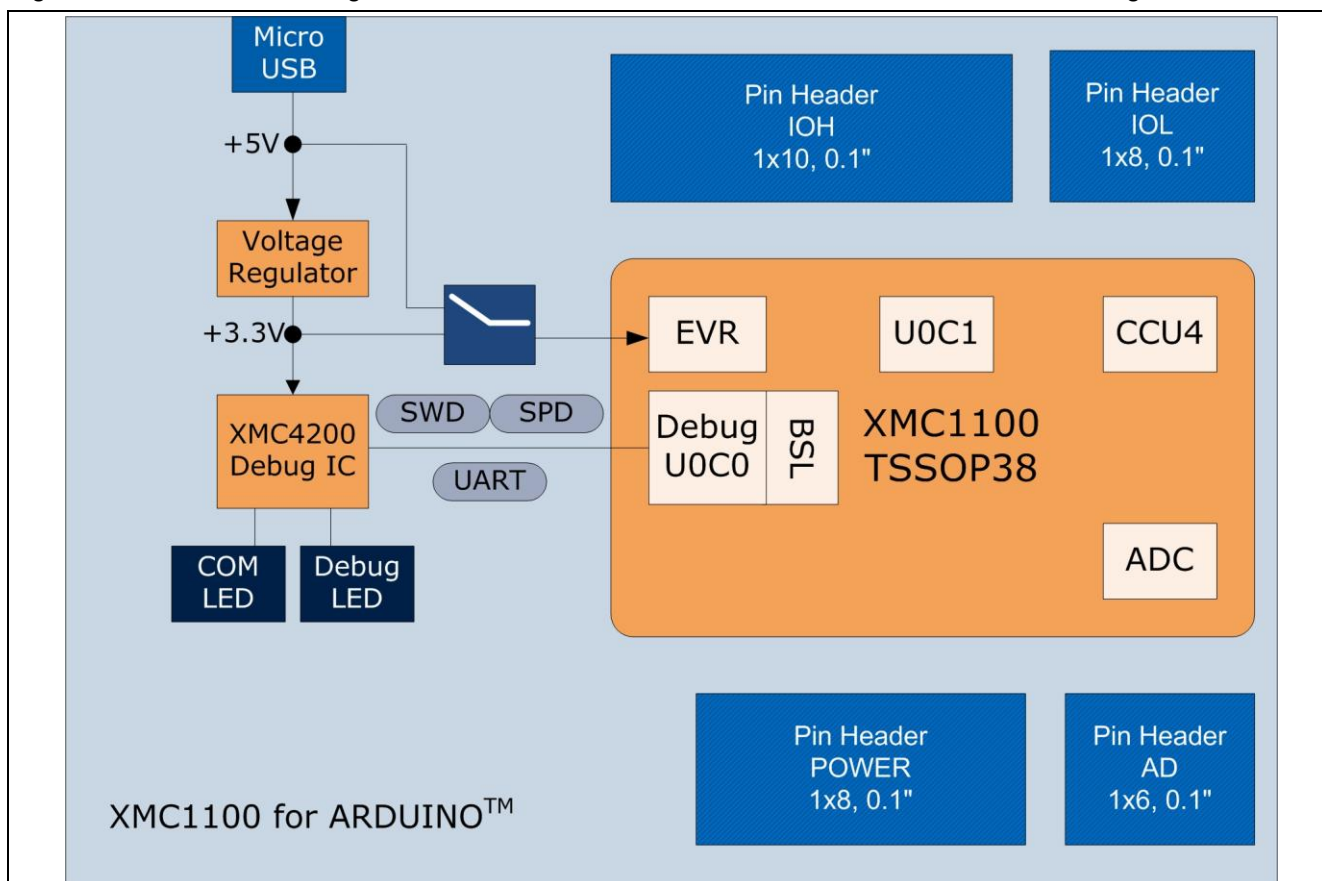
### 1.1 Key Features

The XMC1100 CPU Card for Arduino™ is equipped with the following features

- XMC1100 (ARM® Cortex™-M0 based) Microcontroller, TSSOP38
- Headers compatible with Arduino™ shield
- Detachable SEGGER J-Link debugger and UART virtual COM port, with micro USB connector
- Power supply concept compatible with Arduino™ Uno
- One LED as required from Arduino™ board specification and six additional LEDs

### 1.2 Block Diagram

Figure 1 shows the block diagram of the XMC1100 CPU Card for Arduino™. There are following blocks:



**Figure 1** Block Diagram of XMC1100 CPU Card for Arduino™



## 2 Hardware Description

The following sections give a detailed description of the hardware and how it can be used.

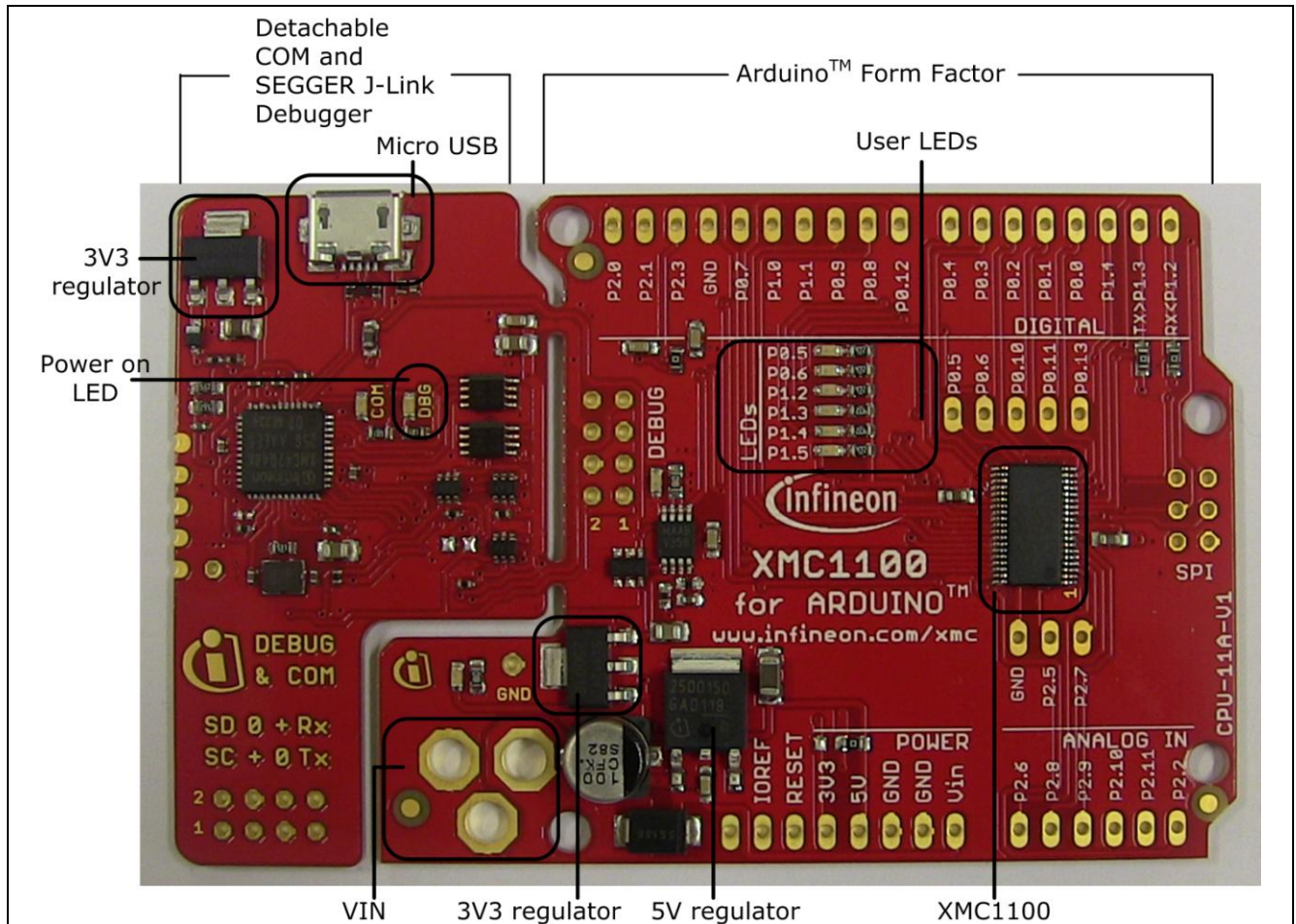


Figure 2 XMC1100 CPU Card for Arduino™

### 2.1 XMC1100 connector for ARDUINO™

#### 2.1.1 Digital IO connector

XMC1100 CPU Card for Arduino™ have 10 pin connector mounting holes and 8 pin connector mounting holes at IOH and IOL respectively. Sixteen of those pins are digital input or output pins. The pinouts are listed in Table 1 and Table 2.



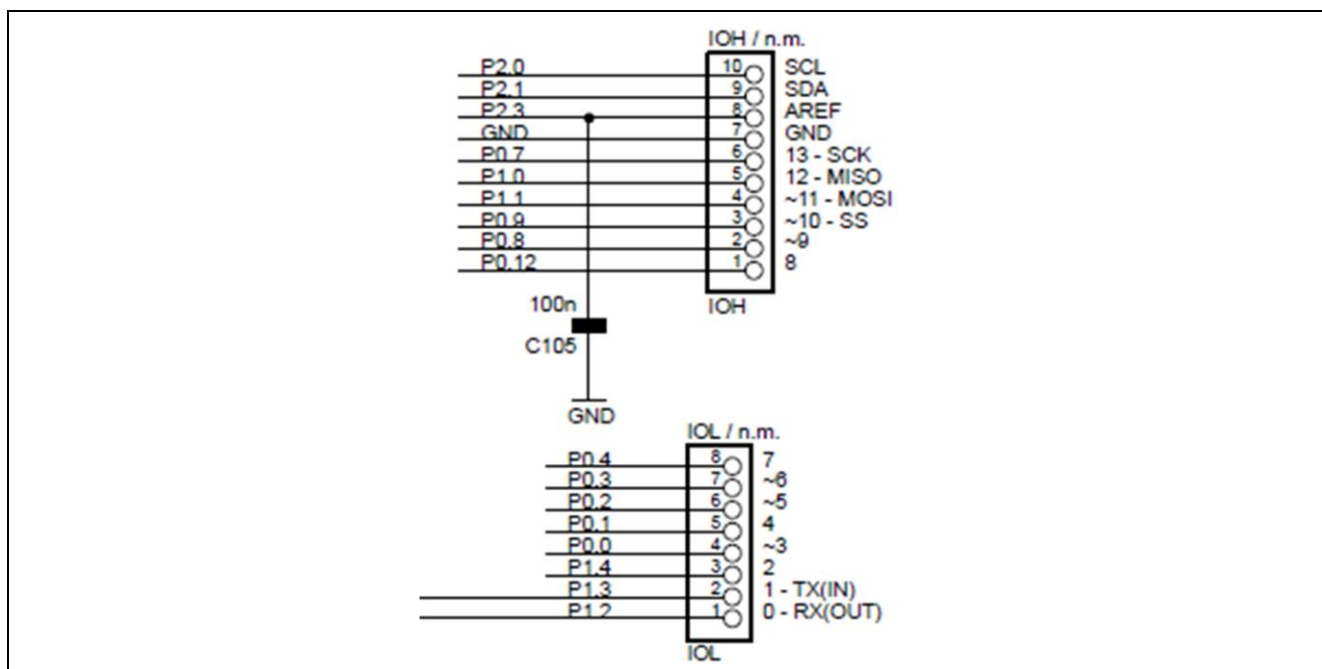


Figure 3 Digital IO connectors IOH, IOL

Table 1 Digital IO of connector IOH

| Pin No. | Arduino™ Signal Name | XMC1100 Signal Name | Description                     |
|---------|----------------------|---------------------|---------------------------------|
| 10      | SCL                  | P2.0                | I <sup>2</sup> C Clock          |
| 9       | SDA                  | P2.1                | I <sup>2</sup> C Data / Address |
| 8       | AREF                 | P2.3                | Analog reference voltage        |
| 7       | GND                  | GND                 | Ground                          |
| 6       | 13 - SCK             | P0.7                | SPI-SCK / LED output            |
| 5       | 12 - MISO            | P1.0                | SPI-MISO                        |
| 4       | ~11 - MOSI           | P1.1                | SPI-MOSI / PWM output           |
| 3       | ~10 - SS             | P0.9                | SPI-SS / PWM output             |
| 2       | ~9 -                 | P0.8                | PWM output                      |
| 1       | 8                    | P0.12               | GPIO                            |

Table 2 Digital IO of connector IOL

| Pin No. | Arduino™ Signal Name | XMC1100 Signal Name | Description                     |
|---------|----------------------|---------------------|---------------------------------|
| 8       | 7                    | P0.4                | GPIO                            |
| 7       | ~6                   | P0.3                | PWM output                      |
| 6       | ~5                   | P0.2                | PWM output                      |
| 5       | 4                    | P0.1                | GPIO                            |
| 4       | ~3                   | P0.0                | External interrupt / PWM output |
| 3       | 2                    | P1.4                | External interrupt              |
| 2       | 1 - TX(IN)           | P1.3                | Device received UART signal     |
| 1       | 0 - RX(OUT)          | P1.2                | Device transmit UART signal     |

### 2.1.2 Analog input

XMC1100 CPU Card for Arduino™ has six analog inputs at connector AD.

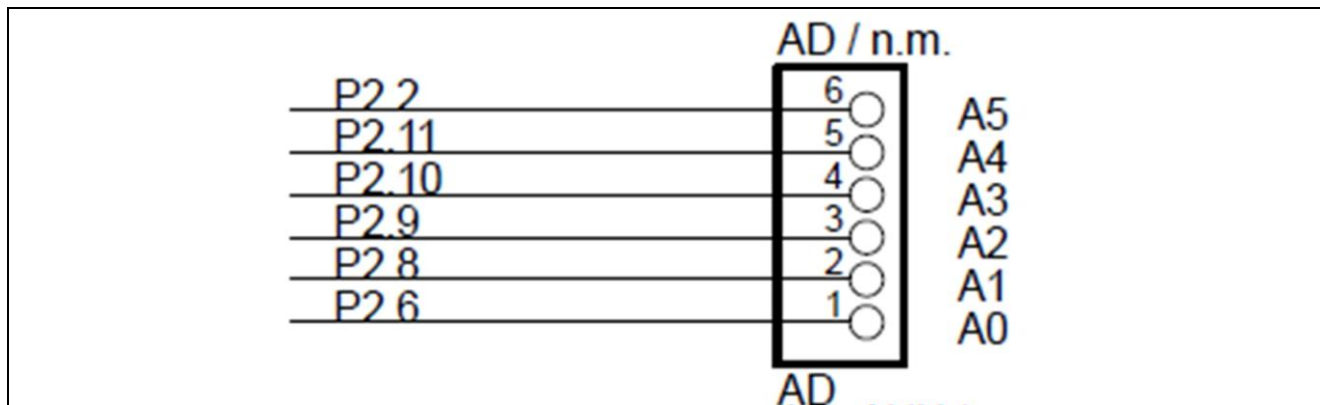


Figure 4 Analog input AD connector

Table 3 Pinout of the AD connector

| Pin No. | Arduino™ Signal Name | XMC1100 Signal Name | Description |
|---------|----------------------|---------------------|-------------|
| 1       | A0                   | P2.6                | ADC Input   |
| 2       | A1                   | P2.8                | ADC Input   |
| 3       | A2                   | P2.9                | ADC Input   |
| 4       | A3                   | P2.10               | ADC Input   |
| 5       | A4                   | P2.11               | ADC Input   |
| 6       | A5                   | P2.2                | ADC Input   |

### 2.1.3 Power connector, POWER

XMC1100 CPU Card for Arduino™ can be powered from the micro USB connector or with an external power supply via the DC power jack. However, the DC power jack is not mounted.

The XMC1100 device can operate by power supply of 1.8V till 5.5Vdc. On this board, 5Vdc is used to power the XMC1100 device. However, if user wants to power the XMC1100 device with 3.3Vdc, then, please remove R102 and solder 0 ohm resistor R101.

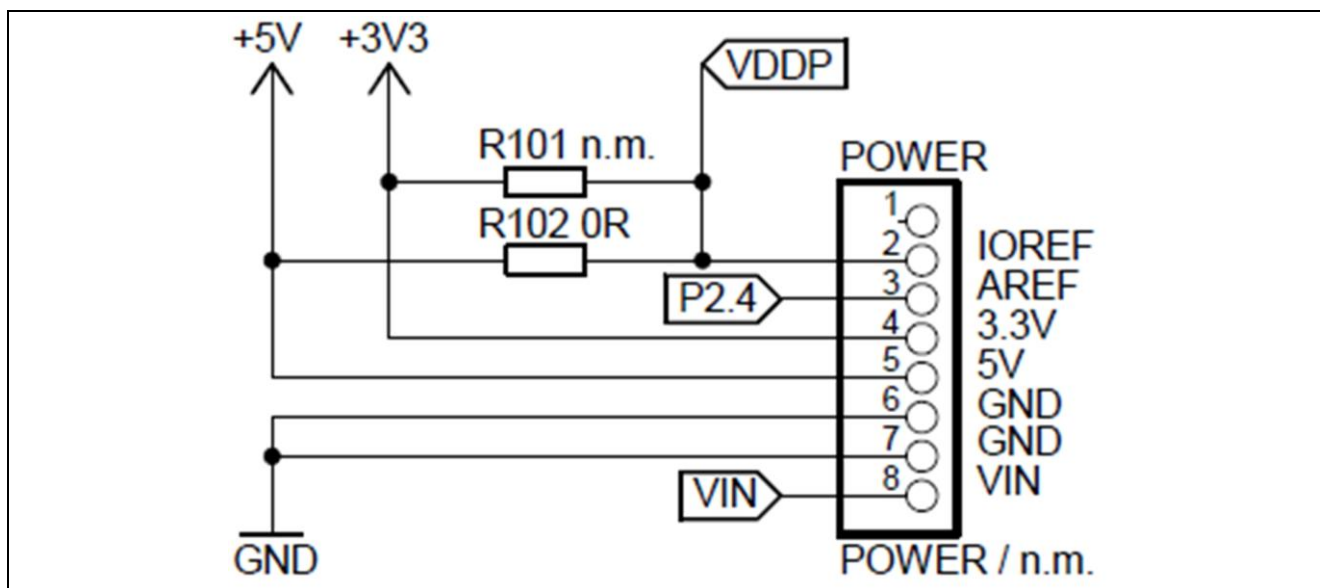


Figure 5 POWER connector

Table 4 Pinout of the POWER connector

| Pin No. | Arduino™ Signal Name | XMC1100 Signal Name | Description                                                                                                             |
|---------|----------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------|
| 1       | -                    | -                   | -                                                                                                                       |
| 2       | IOREF                | VDDP                | VDDP connect to 5V via R102                                                                                             |
| 3       | AREF                 | P2.4                | ADC input to sense Analog reference voltage                                                                             |
| 4       | 3.3V                 | +3V3                | 3.3V is generated by a 3.3V regulator IC101 from +5V                                                                    |
| 5       | 5V                   | +5V                 | +5V is generated by the 5V regulator IC102 from VIN input. If VIN is not powered, +5V is supply by micro-USB connector. |
| 6       | GND                  | GND                 | Ground                                                                                                                  |
| 7       | GND                  | GND                 | Ground                                                                                                                  |
| 8       | VIN                  | VIN                 | DC jack (not mounted), 7-12V                                                                                            |

### 2.1.4 ICSP (In-Circuit Serial Programming) Header

The SPI connector (not mounted) is used to program the XMC1100 microcontroller via the SPI interface.

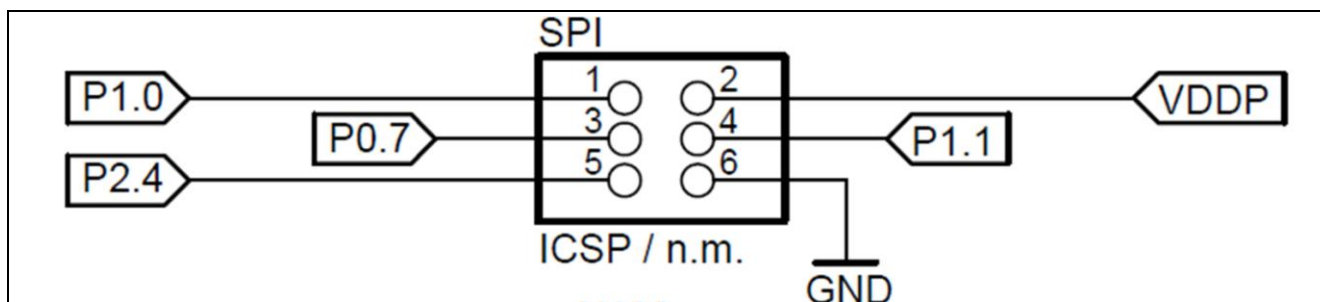


Figure 6 ICSP connector

Table 5 Signals of ICSP connector

| Pin No. | Arduino™ Signal Name | XMC1100 Signal Name | Description   |
|---------|----------------------|---------------------|---------------|
| 1       | MISO                 | P1.0                | Data transmit |
| 2       | +5V                  | VDDP                | 5Vdc          |
| 3       | SCK                  | P0.7                | Clock input   |
| 4       | MOSI                 | P1.1                | Data received |
| 5       | SS                   | P2.4                | Chip select   |
| 6       | GND                  | GND                 | ground        |

## 2.2 LEDs

Arduino™ pinout signal '13-SCK' is connected to yellow LED102 via a buffer. Furthermore, six surface mount LEDs are available for user signaling. Table 6 shows the LEDs driving signals.

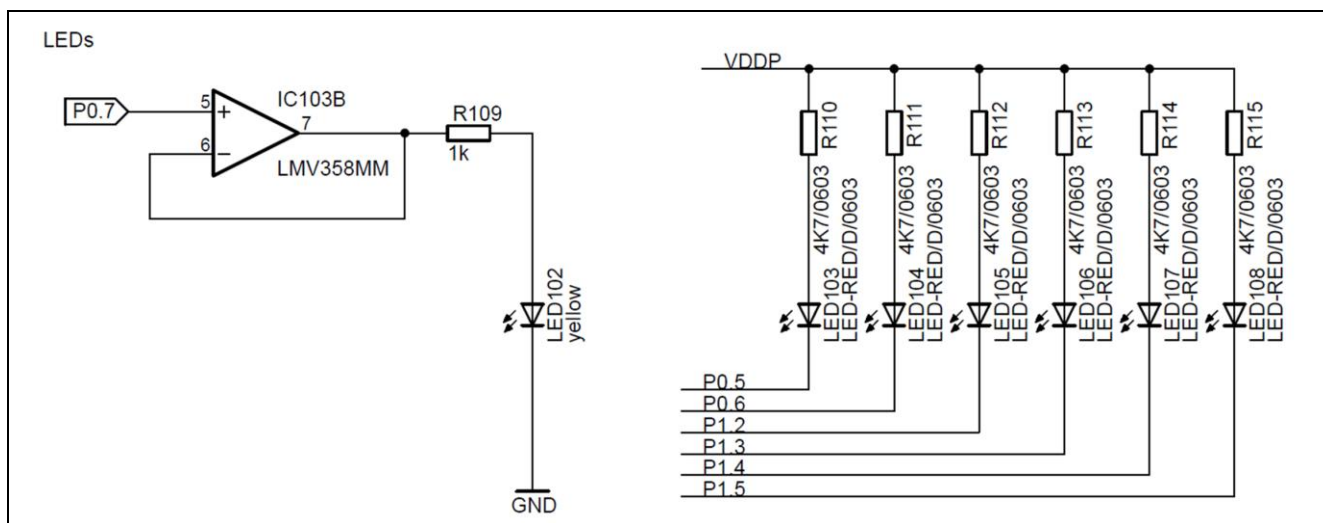


Figure 7 LEDs Circuit

Table 6 LEDs Signal Description

| LED Designation | Signal Name | Description             |
|-----------------|-------------|-------------------------|
| LED102          | P0.7        | Output 'High' to on LED |
| LED103          | P0.5        | Output 'Low' to on LED  |
| LED104          | P0.6        | Output 'Low' to on LED  |
| LED105          | P1.2        | Output 'Low' to on LED  |
| LED106          | P1.3        | Output 'Low' to on LED  |
| LED107          | P1.4        | Output 'Low' to on LED  |
| LED108          | P1.5        | Output 'Low' to on LED  |

## 2.3 Other connectors

XMC1100 microcontroller has more pins than is required Arduino™ board's pinouts, those extra pins are group into connector AD\_AUX (not mount) and AUX (not mount).

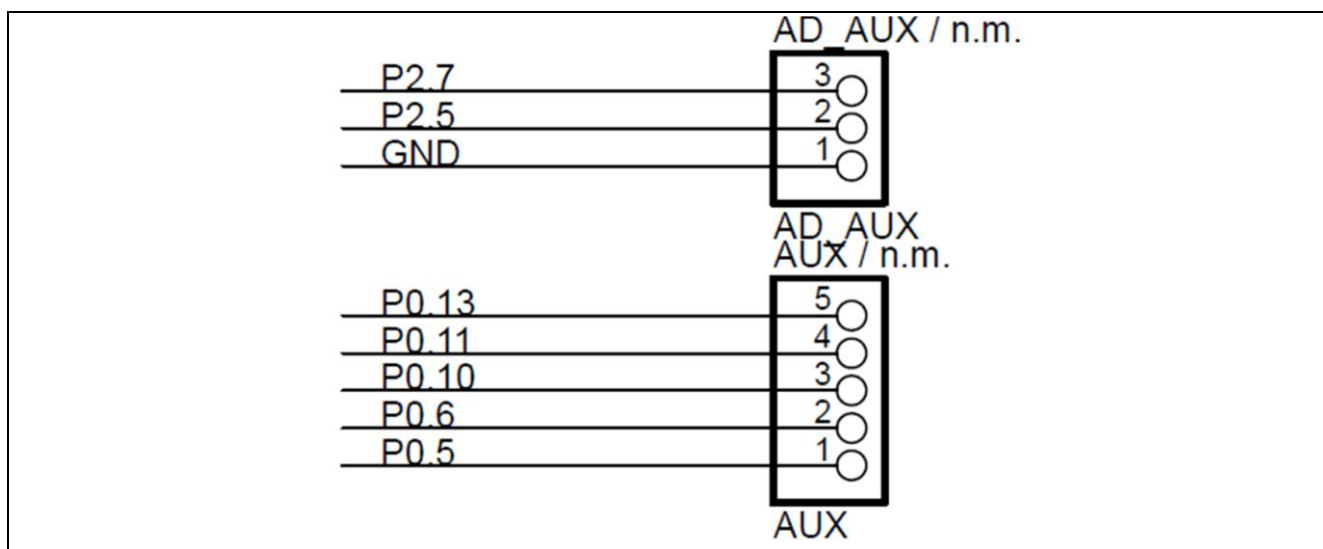


Figure 8 AD\_AUX and AUX connector

**Table 7**      **Signals of connector AD\_AUX**

| <b>Pin No.</b> | <b>Signal Name</b> | <b>Description</b> |
|----------------|--------------------|--------------------|
| 1              | P2.7               | ADC input          |
| 2              | P2.5               | ADC input          |
| 3              | GND                | ADC input          |

**Table 8**      **Signals of connector AUX**

| <b>Pin No.</b> | <b>Signal Name</b> | <b>Description</b> |
|----------------|--------------------|--------------------|
| 1              | P0.5               | GPIO               |
| 2              | P0.6               | GPIO               |
| 3              | P0.10              | GPIO               |
| 4              | P0.11              | GPIO               |
| 5              | P0.13              | GPIO               |

## **3            Production Data**

### **3.1           Schematics**

This chapter contains the schematics for the XMC1100 CPU Card for Arduino™:

- Figure 9: CPU, Pin Headers, LED, Power Supply
- Figure 10: On-board Debugger, Power

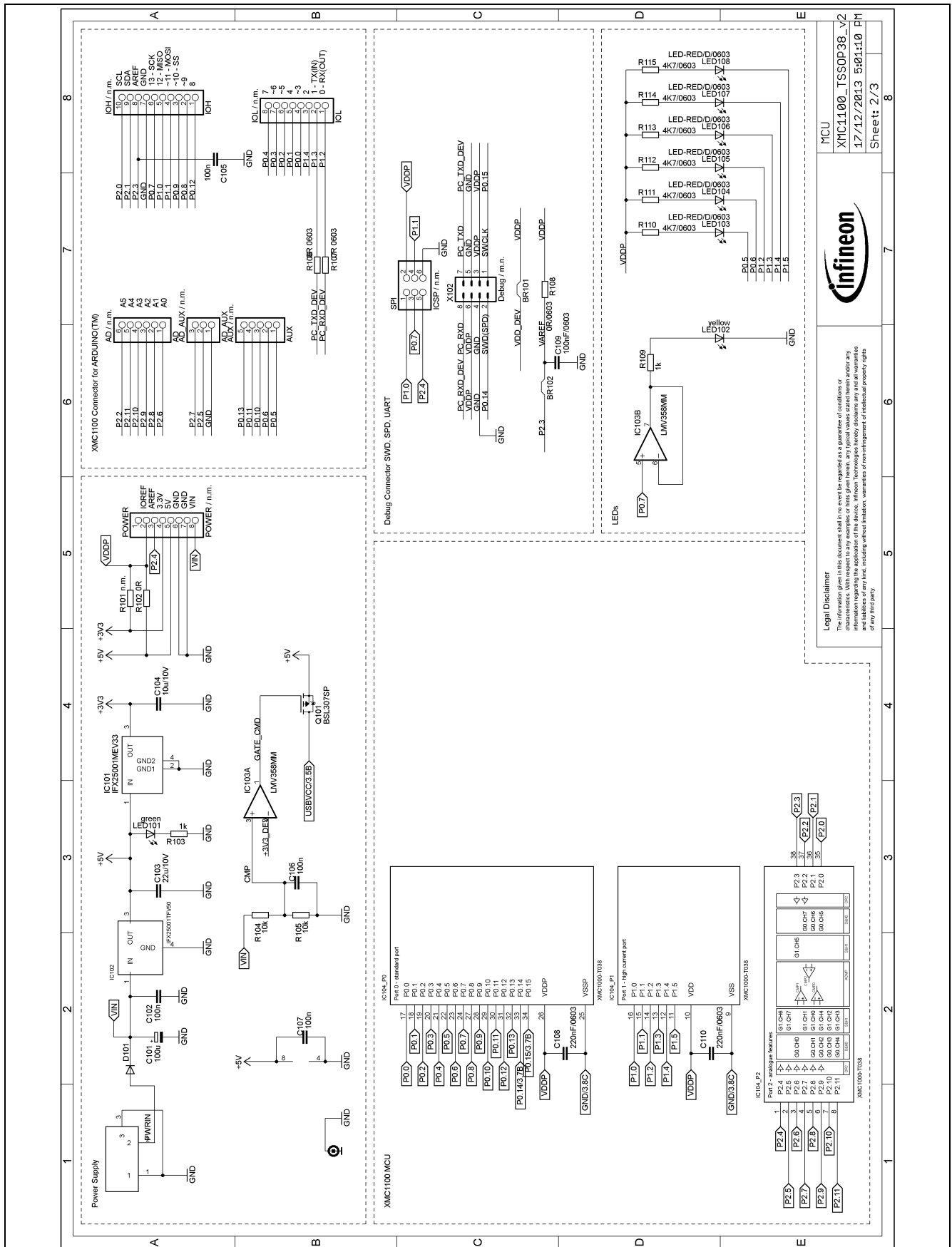


Figure 9 Schematic 1 of 2 XMC1100 CPU Card for Arduino™



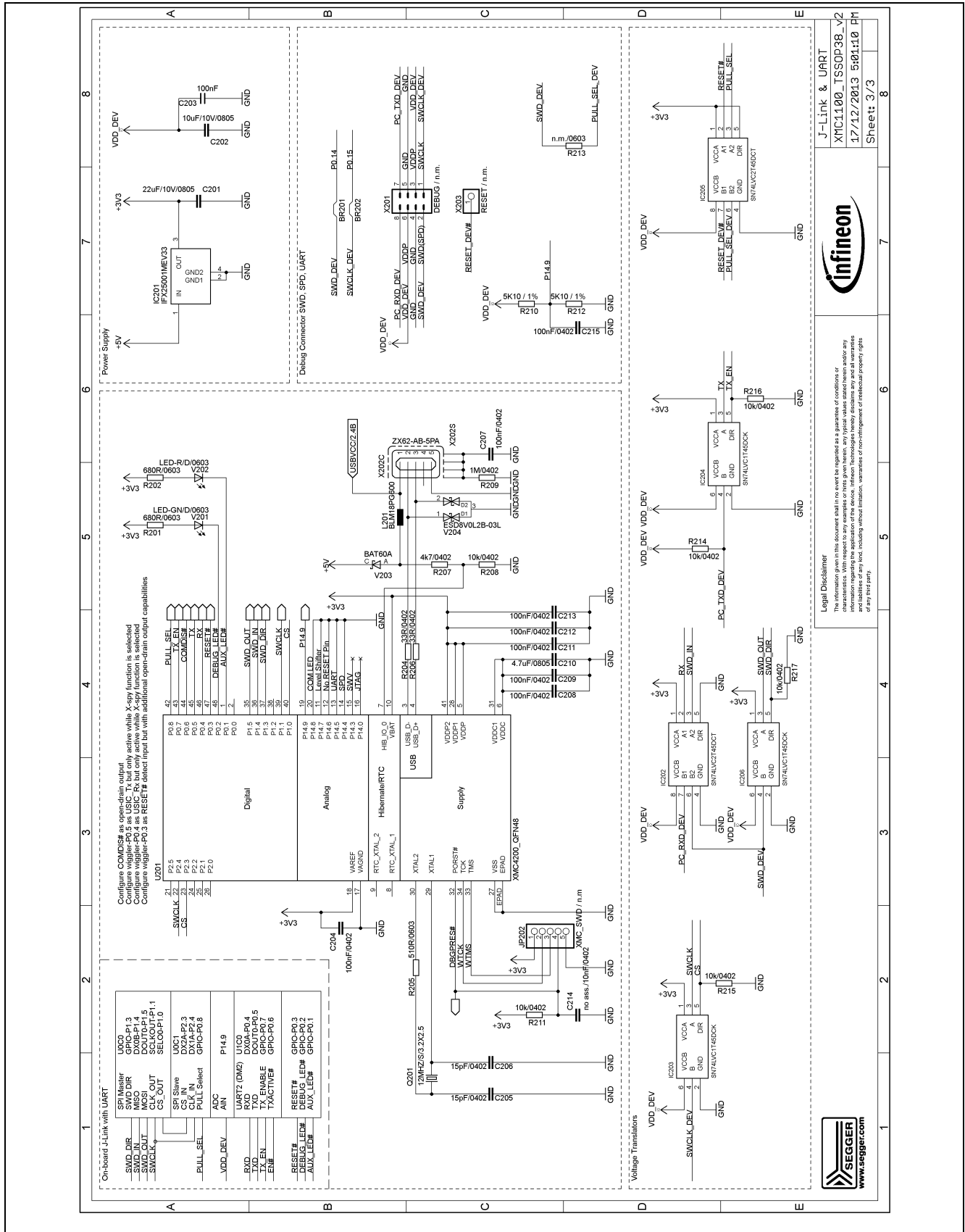


Figure 10 Schematic 2 of 2 XMC1100 CPU Card for Arduino™

## 3.2 Layout and Geometry

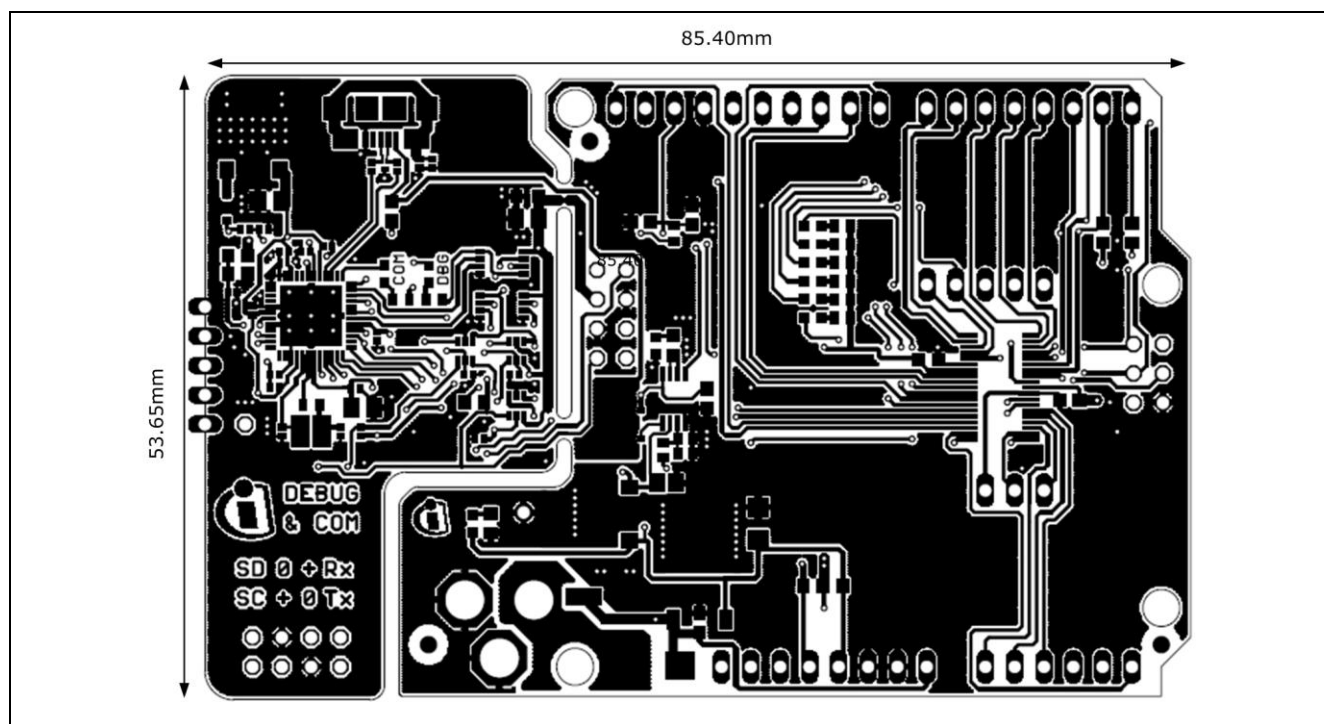


Figure 11 XMC1100 CPU Card for Arduino™ layout and geometry

## 3.3 Bill of Material

Table 9 XMC1100 CPU Card for Arduino™

| No. | Qty | Value               | Device    | Reference Designator |
|-----|-----|---------------------|-----------|----------------------|
| 1   | 1   | 100uF/16V/10%/SMC_D | Capacitor | C101                 |
| 2   | 1   | 100n/16/10%/0603    | Capacitor | C102                 |
| 3   | 1   | 22u/10V/10%/1206    | Capacitor | C103                 |
| 4   | 1   | 10u/10V/10%/1206    | Capacitor | C104                 |
| 5   | 1   | 100n/10V/10%/0603   | Capacitor | C105                 |
| 6   | 1   | 100n/10V/10%/0402   | Capacitor | C106                 |
| 7   | 1   | 100n/10V/10%/0603   | Capacitor | C107                 |
| 8   | 1   | 220nF/10V/10%/0603  | Capacitor | C108                 |
| 9   | 1   | 100nF/10V/10%/0603  | Capacitor | C109                 |
| 10  | 1   | 220nF/10V/10%/0603  | Capacitor | C110                 |
| 11  | 1   | 22uF/10V/10%/0805   | Capacitor | C201                 |
| 12  | 1   | 10uF/10V/10%/0805   | Capacitor | C202                 |
| 13  | 1   | 100nF/10V/10%/0603  | Capacitor | C203                 |
| 14  | 1   | 100nF/10V/10%/0402  | Capacitor | C204                 |
| 15  | 1   | 15pF/10V/10%/0402   | Capacitor | C205                 |
| 16  | 1   | 15pF/10V/10%/0402   | Capacitor | C206                 |
| 17  | 1   | 100nF/10V/10%/0402  | Capacitor | C207                 |
| 18  | 1   | 100nF/10V/10%/0402  | Capacitor | C208                 |

| No. | Qty | Value              | Device        | Reference Designator |
|-----|-----|--------------------|---------------|----------------------|
| 19  | 1   | 100nF/10V/10%/0402 | Capacitor     | C209                 |
| 20  | 1   | 4.7uF/10V/10%/0805 | Capacitor     | C210                 |
| 21  | 1   | 100nF/10V/10%/0402 | Capacitor     | C211                 |
| 22  | 1   | 100nF/10V/10%/0402 | Capacitor     | C212                 |
| 23  | 1   | 100nF/10V/10%/0402 | Capacitor     | C213                 |
| 24  | 1   | 100nF/10V/10%/0402 | Capacitor     | C215                 |
| 25  | 1   | SS13B (Multicomp)  | Diode         | L101                 |
| 26  | 1   | LMV358MM           | Op-Amp        | IC103                |
| 27  | 1   | SN74LVC2T45DCT     | Resistor      | IC202                |
| 28  | 1   | SN74LVC1T45DCK     | Resistor      | IC203                |
| 29  | 1   | SN74LVC1T45DCK     | Resistor      | IC204                |
| 30  | 1   | SN74LVC2T45DCT     | Resistor      | IC205                |
| 31  | 1   | SN74LVC1T45DCK     | Resistor      | IC206                |
| 32  | 1   | BLM18PG600         | Ferrite Bead  | L201                 |
| 33  | 1   | Green LED/0603     | ChipLED       | LED101               |
| 34  | 1   | Yellow LED/0603    | ChipLED       | LED102               |
| 35  | 1   | LED-RED/D/0603     | Red ChipLED   | LED103               |
| 36  | 1   | LED-RED/D/0603     | R Red ChipLED | LED104               |
| 37  | 1   | LED-RED/D/0603     | Red ChipLED   | LED105               |
| 38  | 1   | LED-RED/D/0603     | Red ChipLED   | LED106               |
| 39  | 1   | LED-RED/D/0603     | Red ChipLED   | LED107               |
| 40  | 1   | LED-RED/D/0603     | Red ChipLED   | LED108               |
| 41  | 1   | 12MHZ/S/3.2X2.5    | Quarz         | Q201                 |
| 42  | 1   | 0R/0603            | Resistor      | R102                 |
| 43  | 1   | 1k/0603            | Resistor      | R103                 |
| 44  | 1   | 10k/0402           | Resistor      | R104                 |
| 45  | 1   | 10k0402            | Resistor      | R105                 |
| 46  | 1   | 0R/0603            | Resistor      | R106                 |
| 47  | 1   | 0R/0603            | Resistor      | R107                 |
| 48  | 1   | 0R/0603            | Resistor      | R108                 |
| 49  | 1   | 1k/0603            | Resistor      | R109                 |
| 50  | 1   | 4K7/0603           | Resistor      | R110                 |
| 51  | 1   | 4K7/0603           | Resistor      | R111                 |
| 52  | 1   | 4K7/0603           | Resistor      | R112                 |
| 53  | 1   | 4K7/0603           | Resistor      | R113                 |
| 54  | 1   | 4K7/0603           | Resistor      | R114                 |
| 55  | 1   | 4K7/0603           | Resistor      | R115                 |
| 56  | 1   | 680R/0603          | Resistor      | R201                 |
| 57  | 1   | 680R/0603          | Resistor      | R202                 |
| 58  | 1   | 33R/0402           | Resistor      | R204                 |
| 59  | 1   | 510R/0603          | Resistor      | R205                 |
| 60  | 1   | 33R/0402           | Resistor      | R206                 |
| 61  | 1   | 4k7/0402           | Resistor      | R207                 |

| No. | Qty | Value             | Device                    | Reference Designator |
|-----|-----|-------------------|---------------------------|----------------------|
| 62  | 1   | 10k/0402          | Resistor                  | R208                 |
| 63  | 1   | 1M/0402           | Resistor                  | R209                 |
| 64  | 1   | 5K10/1%/0603      | Resistor                  | R210                 |
| 65  | 1   | 10k/0402          | Resistor                  | R211                 |
| 66  | 1   | 5K10/1%/0603      | Resistor                  | R212                 |
| 67  | 1   | 10k/0402          | Resistor                  | R214                 |
| 68  | 1   | 10k/0402          | Resistor                  | R215                 |
| 69  | 1   | 10k/0402          | Resistor                  | R216                 |
| 70  | 1   | 10k/0402          | Resistor                  | R217                 |
| 71  | 1   | LED-GN/D/0603     | ChipLED                   | V201                 |
| 72  | 1   | LED-R/D/0603      | ChipLED                   | V202                 |
| 73  | 1   | ESD8V0L2B-03L     | ChipLED                   | V204                 |
| 74  | 1   | ZX62-AB-5PA       | Micro-USB                 | X202                 |
| 75  | 1   | IFX25001MEV33     | 3V3 regulator, Infineon   | IC101                |
| 76  | 1   | IFX25001TFV50     | 5V regulator, Infineon    | IC102                |
| 77  | 1   | XMC1000-T038      | Microcontroller, Infineon | IC104                |
| 78  | 1   | IFX25001MEV33     | 3V3 regulator, Infineon   | IC201                |
| 79  | 1   | XMC4200_QFN48     | Microcontroller, Infineon | U201                 |
| 80  | 1   | BAT60A            | Diode                     | V203                 |
| 81  | 1   | BSL307SP          | P Mosfet                  | Q101                 |
| 82  | 1   | n.m.              | 1x6 pin header            | AD                   |
| 83  | 1   | n.m.              | 1x3 pin header            | AD_AUX               |
| 84  | 1   | n.m.              | 1x5 pin header            | AUX                  |
| 85  | 1   | BRIDGE10X10       | BRIDGE10                  | BR101                |
| 86  | 1   | BRIDGE10X10       | BRIDGE10                  | BR102                |
| 87  | 1   | BRIDGE10X10       | BRIDGE10                  | BR201                |
| 88  | 1   | BRIDGE10X10       | BRIDGE10                  | BR202                |
| 89  | 1   | n.m.              | 1x10 pin header           | IOH                  |
| 90  | 1   | n.m.              | 1x8 pin header            | IOL                  |
| 91  | 1   | n.m.              | 1x5 pin header            | JP202                |
| 92  | 1   | POWER             | 1x8 pin header            | POWER                |
| 93  | 1   | ICSP              | 2x3 pin header            | SPI                  |
| 94  | 1   | DC21MMX           | DC Power Jack             | X101                 |
| 95  | 1   | MA04-2 Debug      | 2x4 pin header            | X102                 |
| 96  | 1   | MA04-2 DEBUG      | 2x4 pin header            | X201                 |
| 97  | 1   | RESET             | 1x1 pin header            | X203                 |
| 98  | 1   | no ass./10nF/0402 | Capacitor                 | C214                 |
| 99  | 1   | n.m.              | Resistor                  | R101                 |
| 100 | 1   | n.m./0603         | Resistor                  | R213                 |

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