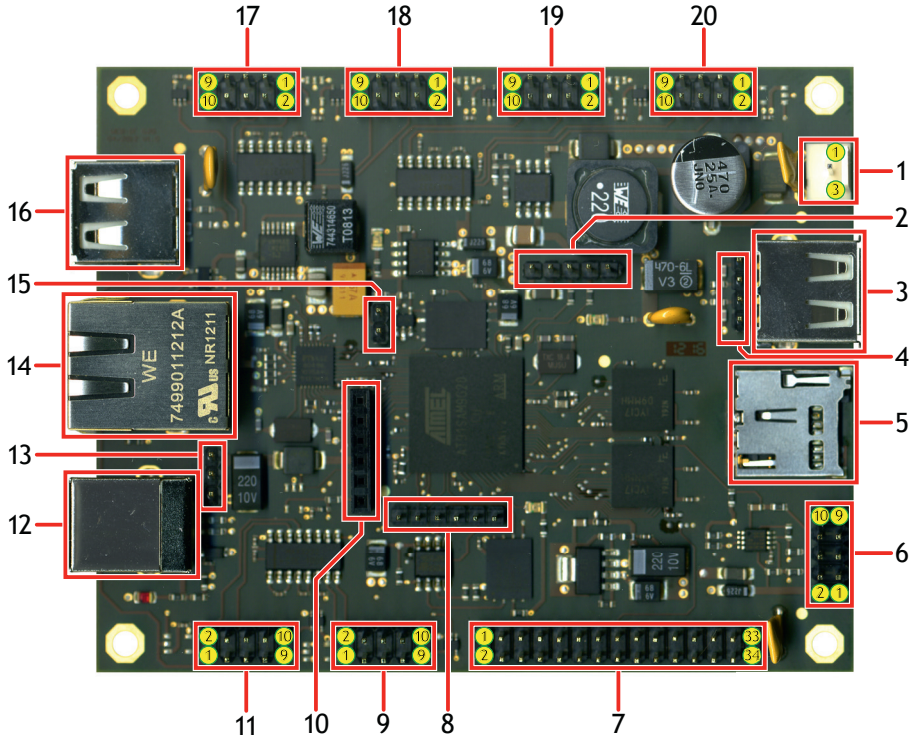
1 Connector description



board dimensions: 80×100 mm

Connectors	1	3pin Header	Power Input
	2	5pin Header	A/D converter
	3	USB-A receptacle	
	4	4pin Header	USB alternative
	5	Cardreader	µSD?
	6	10pin Header	Display I²C-Bus
	7	34pin Header	TS
	8	6pin Header	SPI
	9	10pin Header	COM 1
	10	6pin port	Debug
	11	10pin Header	COM 2
	12	USB-B receptacle	
	13	3pin Header	opt. 5V out
	14	RJ45 Jack	Ethernet
	15	2pin Header	disable Bootflash
	16	USB-A receptacle	
	17	10pin Header	COM 3
	18	10pin Header	COM 4
	19	10pin Header	COM 5
	20	10pin Header	COM 6

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2 Pin description

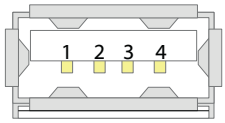
1 – Power Input

1	+8.0 ... +24.0 V
2	GND
3	GND

2 – A/D converter

1	3.3 V
2	3.3 V over Ferrit 0.5 A max.
3	ADC 2
4	ADC 0
5	GND

3, 16 – USB-A receptable



1	+5.0 V
2	D-
3	D+
4	GND

4 – USB header

1	+5.0 V
2	D-
3	D+
4	GND

6 – LCD Connector I²C-Bus

1	+5.0 V	2	+5.0 V
3	SDA	4	SDA
5	SCL	6	SCL
7	Reset	8	IRQ
9	GND	10	GND

7 – ...

1	GPIO 0	2	+5.0 V
3	GPIO 1	4	+5.0 V
5	GPIO 2	6	+3.3 V
7	GPIO 3	8	+3.3 V
9	SCL	10	GND
11	SDA	12	GND
13	GPIO 4	14	GND
15	GPIO 5	16	GND
17	GPIO 6	18	GND
19	RK0	20	GND
21	RD0	22	GND
23	RF0	24	GND
25	TK0	26	GND
27	TD0	28	GND
29	TF0	30	+12.0 V

9, 11, 17, 18, 19, 20 – RS232

1	Mode	2	RxD
3	TxD	4	con. with 6
5	GND	6	con. with 4
7	con. with 8	8	con. with 7
9	Reset	10	GND

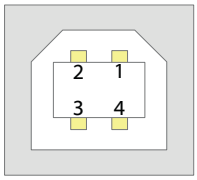
8 – SPI

1	GND
2	CS
3	SPCK
4	MOSI
5	MISO
6	+5.0 V

10 – Debug port

1	ext. Reset
2	not connected
3	+5.0 V in
4	TxD
5	RxD
6	GND

12 – USB-B receptable

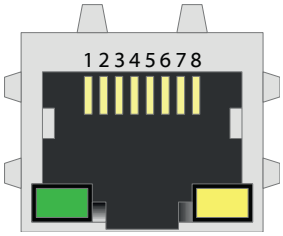


1	+5.0 V
2	D-
3	D+
4	GND

13 – optional 5V out

1	+5.0 V/1 A
2	+5.0 V/1 A
3	GND

14 – Ethernet



1	TX+
2	TX-
3	RX+
4	n.c.
5	n.c.
6	RX-
7	n.c.
8	n.c.

15 – Bootflash disable

Set to disable the Boot flash.

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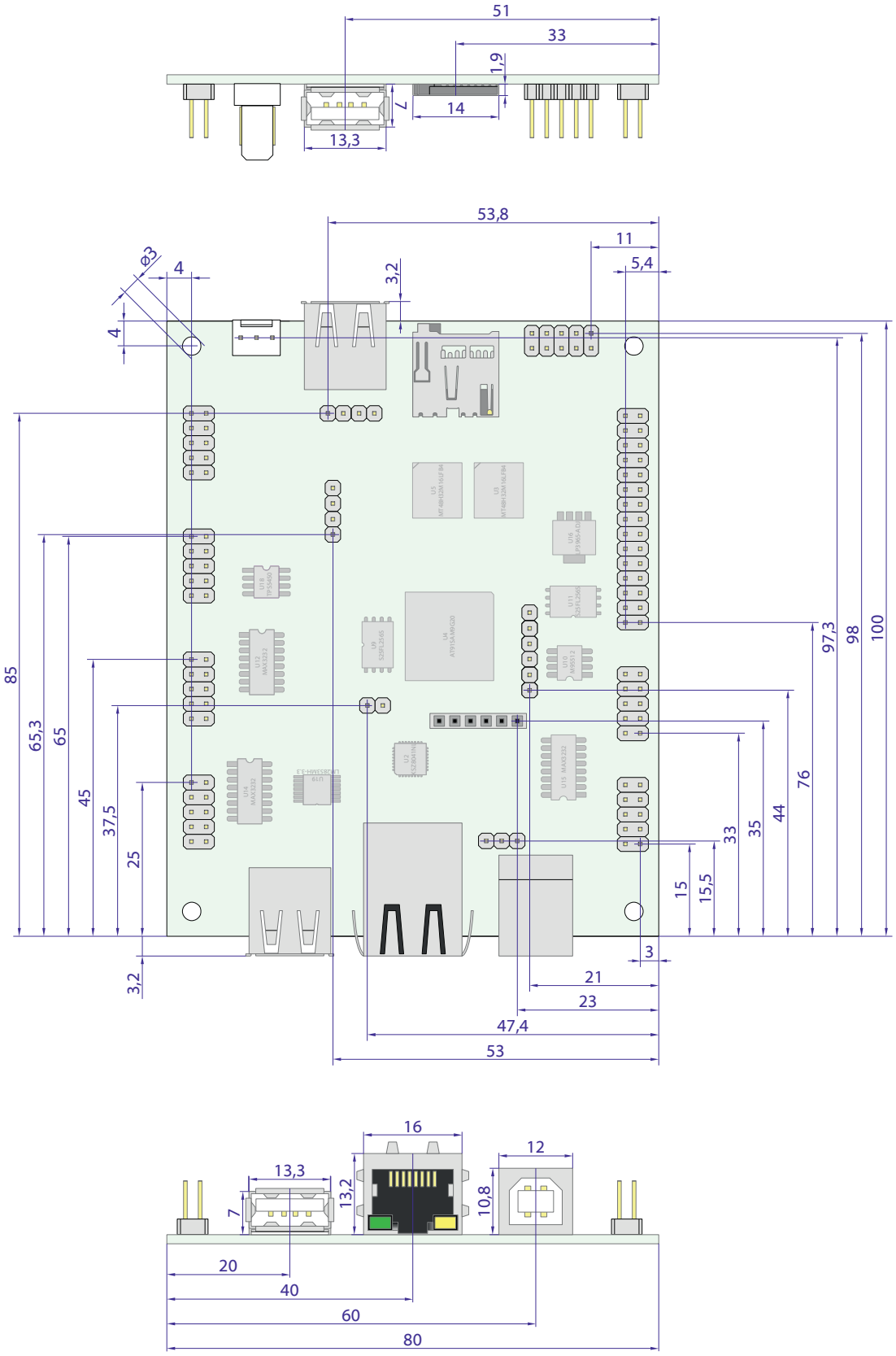
3 Dimensional drawing



note: all dimensions are given in mm (1 inch=25.4 mm)!

The board itself is 2.0 mm thick, the maximal component height is 14.0 mm from the top of the board. The safety clearance for component pins should be 4.0 mm from the bottom of the board.

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Errata/corrections:

16.05.2012 First release.

11.05.2014 Correction of the swapped pins on the serial interfaces.

The information in this manual was compiled with great care and to our best knowledge; nevertheless there might be some errors left in this document. We do not take legal or any other responsibility for the correctness of any information.

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We are happy to receive your comments and questions:

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