+3V3A

L2
+3V3A
+3V3D

C9
10uF/16V
GND

+5V

AME8815BEGT
LDO1
+3V3

C20
10uF/16V

C21
10uF/16V

R18
10k

LED5

GND

L1
+3V3D
+3V3D

C10
10uF/16V
GND

R29
0
R27
0
R25
0

R28
0
R26
0
R24
0

GND

+3V3D

GND

R1
10k

C1
100n
GND

R9 R8 R7 R6 R5 R4 R3 R2
10k 10k 10k 10k 10k 10k 10k 10k

/RST
/SCS
CLK
MISO
MOSI
+3V3D
GND

SV2

mikro
BUS

SV1

/INT

SCL
SDA
+5V
GND

IC1

48 47 46 45 44 43 42 41 40 39 38 37

AGND NC NC PMODE0 PMODE1 PMODE2 RSVD RSVD RSVD RSVD RSVD /RST

+3V3A

C17
100n
C7
100n

+3V3A

R19 R20
49.9R 49.9R

GND

SCHIELD

RJ45_1

1:1
TD+
TCT
TD-

1:1
RD+
RCT
RD-

GND

PW+
PW-

A1
K1
A2
K2

RJPLB-203TC1

SCHIELD

C19
1nF, 2kV
GND

2kV 1nF 75R
2kV 1nF 75R

+5V

JP4

GND

+3V3D

LED_1
LED_2

1 TXN
2 TXP
3 AGND
4 AVDD
5 RXN
6 RXP
7 DNC
8 AVDD
9 AGND
10 EXRES1
11 AVDD
12 NC

C11
100n

R21 R22
49.9R 49.9R
C18
100n

C12
100n

C13
100n

GND

W5500

36 /INT
35 MOSI
34 MISO
33 SCLK
32 /SCS
31 XO
30 XI/CLKIN
29 GND
28 VDD
27 ACTLED
26 DUPLED
25 LINKLED

+3V3D
R17
10k

GND

+3V3D
R16
10k

@ Tessel

/RST   1
/INT   2
/SCS   3
MOSI   4
MISO   5
CLK   6
SDA   7
SCL   8
+3V3D   9
GND   10

JP1

GND

Q1
25MHz

+3V3D
C6
100n
C5
100n
C4
100n
GND

IC2
I²C
EEPROM
Array
SCL
VCC
SDA
GND
24AA02E48

+3V3D
C22
100n
GND

+3V3D

R15 470 LED1
R14 470 LED2
R13 470 LED3
R12 470 LED4

R10
6k8 1%

12.4k 1%

R23
5k6k 1%

NC AGND AVDD AGND AVDD VBG AGND TOCAP AVDD 1V2O RSVD SPDLED
13 14 15 16 17 18 19 20 21 22 23 24

C14
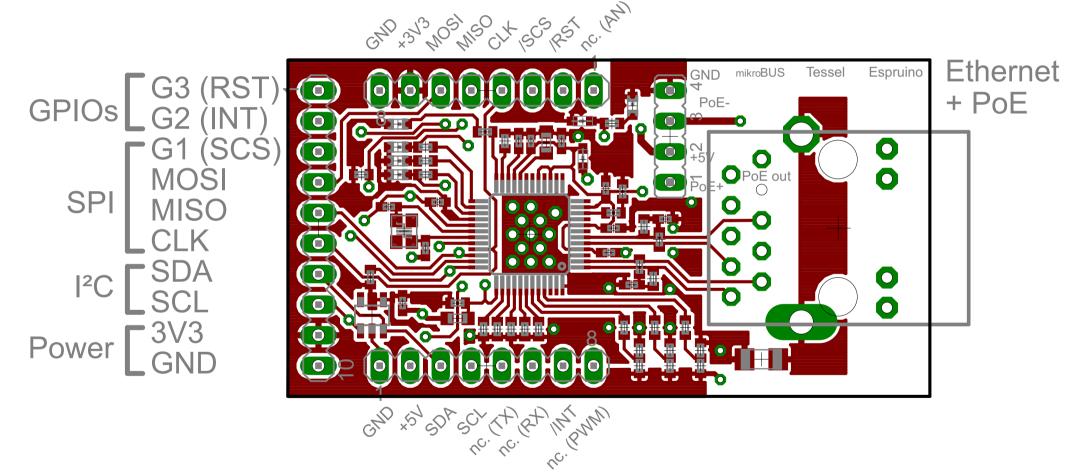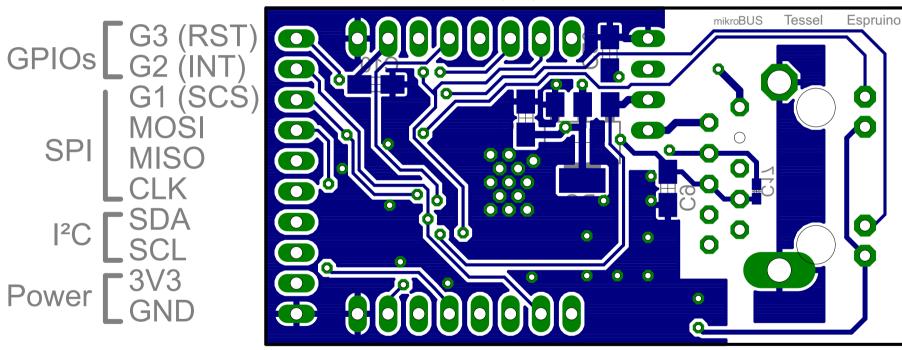100n

C3 C16 C2
4.7µ 100n 10n
R11
10k

W5500

GND

W5500 - Tessel Module, see: http://www.technical.io/
W5500 - Espruino Module, see: http://www.espruino.com/
W5500 - mikroBUS(TM) Module, see: http://www.mikroe.com

GND +3V3 MOSI MISO CLK /SCS /RST nc. (AN)

GPIOs
G3 (RST)
G2 (INT)

G1 (SCS)
SPI MOSI
MISO
CLK

I²C SDA
SCL

Power 3V3
GND

GND   mikroBUS   Tessel   Espruino
PoE-
+5V
PoE+   PoE out

Ethernet
+ PoE

GND +5V SDA SCL nc. (TX) nc. (RX) /INT nc. (PWM)

W5500 - Tessel Module, see: http://www.technical.io/
W5500 - Espruino Module, see: http://www.espruino.com/
W5500 - mikroBUS(TM) Module, see: http://www.mikroe.com

GND +3V3 MOSI MISO CLK /SCS /RST nc. (AN)

mikroBUS   Tessel   Espruino

Ethernet
+ PoE

GPIOs
G3 (RST)
G2 (INT)

G1 (SCS)
SPI
MOSI
MISO
CLK

I²C
SDA
SCL

Power
3V3
GND

GND +5V SDA SCL nc. (TX) nc. (RX) /INT nc. (PWM)