+3V3

GND

C1 C2 C3 C4 C8
100nF 100nF 100nF 100nF

L1

C10 100nF

R8 49.9/1%
R11 49.9/1%

GND

+3V3

R6 10K
R5 10K

X2-9

X2-2
332-10
X2-3
X2-8
X2-4
X2-5
X2-6
X2-7

X2-1
332-10
X2-10

GND

U1

4 INT
5 WOL
10 RESET

6 SO
7 SI
8 SCK
9 CS

3 CLKOUT
1 VCAP
14 RBIAS

19 VDDRX
20 VDDPLL
15 VDDTX
25 VDDOSC
28 VDD

17 TPOUT+
16 TPOUT-

13 TPIN+
12 TPIN-

27 LEDA
26 LEDB

23 OSC1
24 OSC2

11 VSSRX
21 VSSPLL
18 VSSTX
22 VSSOSC
2 VSS

ENC28J60-SSOP

C9 10µF
R7 2K/1%

Q1 25Mhz
18pF 18pF
C5 C6

10nF
C7

R9 49.9/1%
R10 49.9/1%

GND

X1

1 TD+
2 CT
3 TD-
4 RD+
5 CR
6 RD-

75R 75R
75R
75R

1 nF

1 nF

1 TX+
2 TX-
3 RX+
6 RX-

4
5
7
8

10
9 Right LED

12
11 Left LED

J1012F21R

* better be close to the mass of the osc

TITLE:	box - Sub Module		
Document Number:		D-1 S-1 R-1	REV: 1.0

Eth0 SPI Module