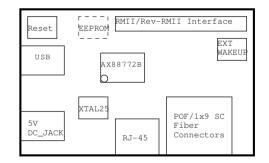
AX88772B USB to 100Base-TX/FX Ethernet with RMII Demo Boards Reference Schematic System Block

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RJ-45 + Ethernet Magnetics (copper mode)
100Base-FX POF Fiber Transceiver Module
100Base-FX 1x9 SC Fiber Transceiver Module

Page 2
AX88772B Schematic
25MHz Crystal
EEPROM(93C66)
RMII/Rev-RMII Interface
Power/Reset Circuit
USB Connector

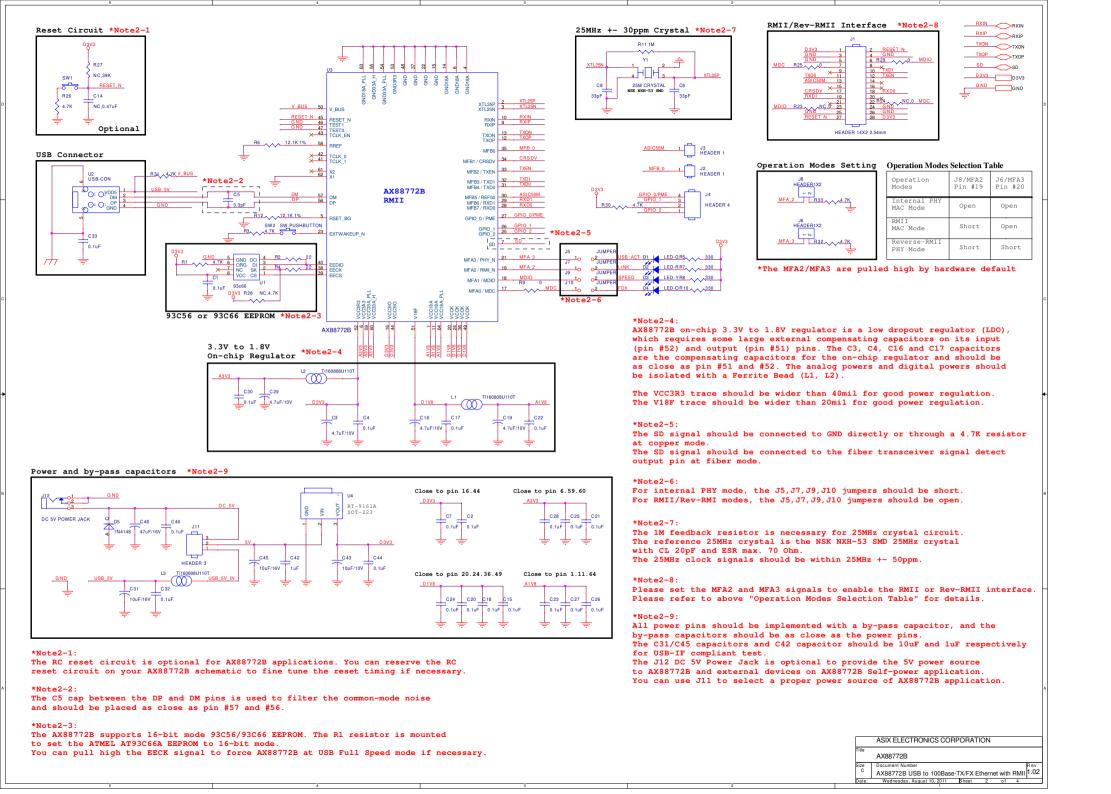
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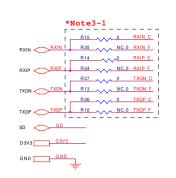


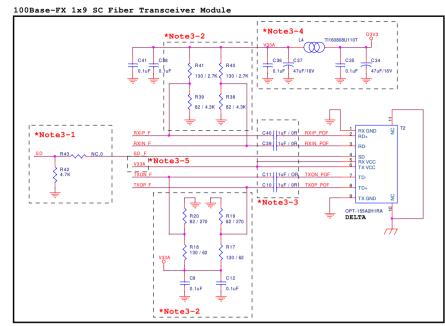
Note:

- 1.Please refer to AX88772B USB-to-LAN Application Design Note for more AX88772B PCB layout design notes.
- 2.Please deliver us your AX88772B schematic and PCB layout file for further review.

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Copper and Fiber Mode Setting Table *Note3-1

Mode	R15	R35	R14	R34	R37	R13	R36	R16	R42	R43
Copper	0	NC	0	NC	0	NC	0	NC	4.7K	NC
Fiber	NC	0	NC	0	NC	0	NC	0	NC	0

Fiber Mode Component Table *Note3-2

1201 House component 12210 House 1												
Component	R17	R18	R19	R20	R40	R41	R38	R39	R44	R49	R47	R48
DELTA 1x9 SC	130	130	82	82	130	130	82	82	NC	NC	NC	NC
COMOSS POF	62	62	270	270	2.7K	2.7K	4.3K	4.3K	100	100	30	30
Component	_C10	C11	C39	C40	*Note3-3							
DELTA 1x9 SC	0R	0R	0R	0R	1							
COMOSS POF	1uF	1uF	1uF	1uF	1							

*Note3-1:

The AX88772B supports both copper mode and fiber mode. Please refer to above "Copper and Fiber Mode Setting Table" to implement your AX88772B application for copper mode or fiber mode.

*Note3-2:

The R17~R20, R38~R41, R44, R47~R49 resistors should be set different values for DELTA 1x9 SC Fiber transceiver module and COMOSS POF Fiber transceiver module. Please refer to above "Fiber Mode Component Table" and contact the Fiber transceiver vendor support guys for detailed Fiber transceiver related cicruit.

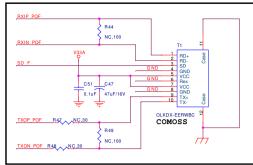
*Note3-3:

The C10, C11, C39, C40 will be mounted 0 Ohm resistors for DELTA 1x9 SC Fiber transceiver module.

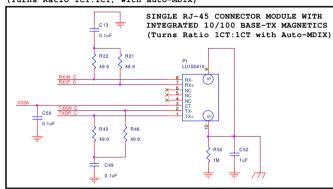
The C10, C11, C39, C40 will be mounted 1uF capacitors for COMOSS POF Fiber transceiver module.

Please refer to above "Fiber Mode Component Table" and contact the Fiber transceiver vendor support guys for detailed Fiber transceiver related cicruit.

100Base-FX POF Fiber Transceiver Module



RJ-45 Connector + Tranformer (Copper) (Default Mode) (Turns Ratio 1CT:1CT, with auto-MDIX)



Note3-4

You can implement a separate V33A power plane to provide a pure 3.3V analog power source for the copper/fiber connectors.

*Note3-5:

The V33A power source of OPT-155A2H1RA 1x9 SC Fiber transceiver is near to L4 so it can share the C36 and C37 capacitors with L4.

Revision History

Revision	Date	Comment
V1.00	2010/06/21	Initial release.
V1.01	2010/06/24	1.Changed D5 to 1N4148. 2.Changed C47 to 47uF/16V.
V1.02	2011/08/10	1.Updated F.B. L1/L2/L3/L4 to T1160808U110T.

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