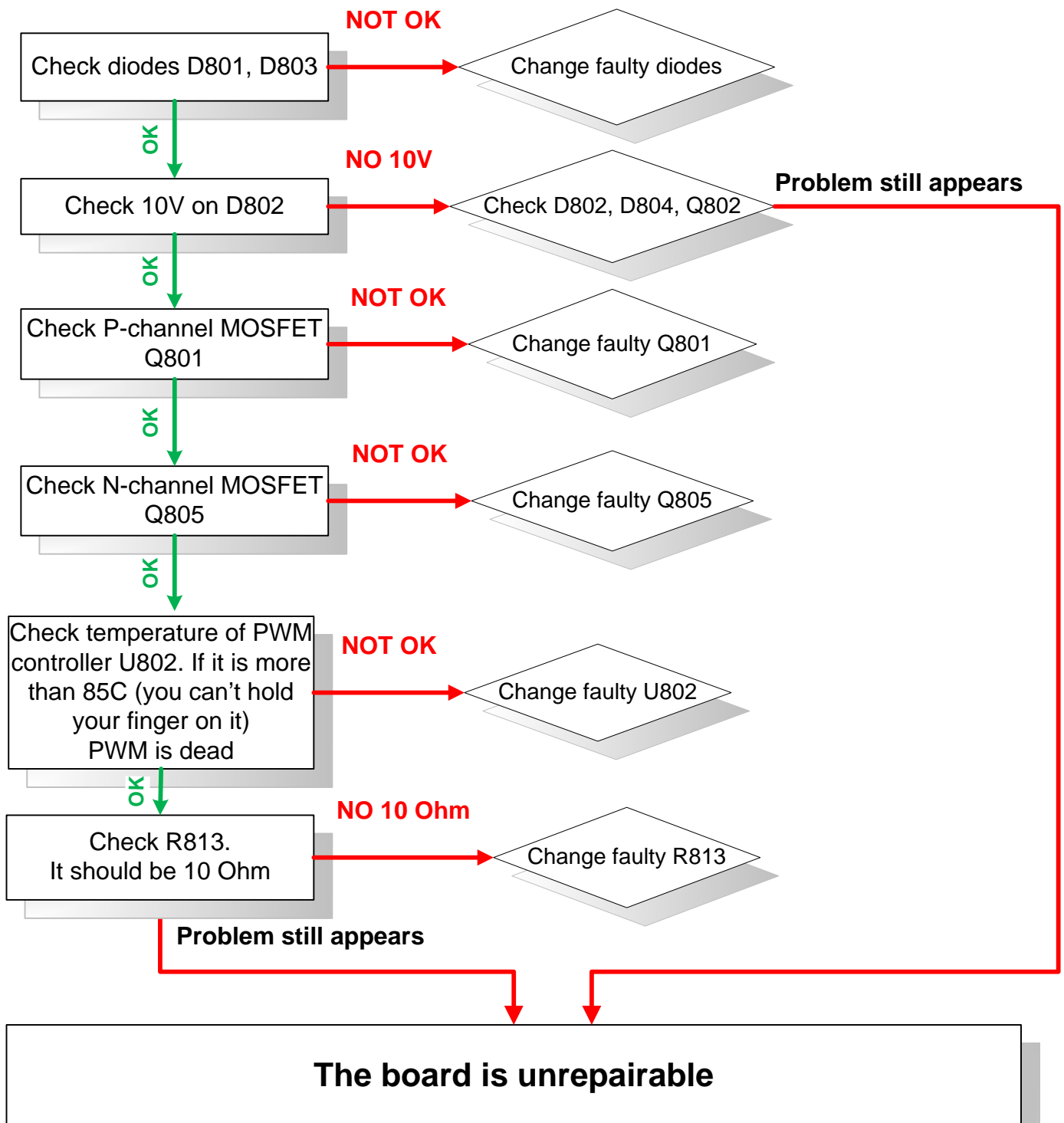


RB411U Trouble Shooting

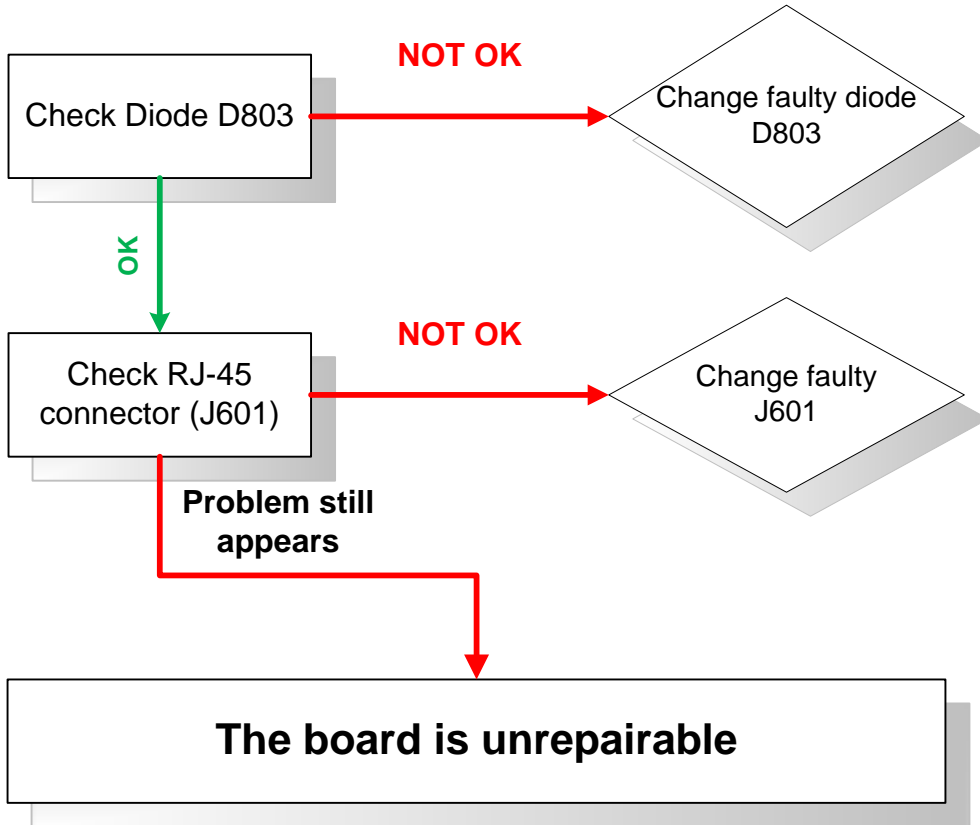
These repair instructions are for **NON WARRANTY** repairs only!

Please make visual inspection for signs of corrosion or mechanical damages before starting.

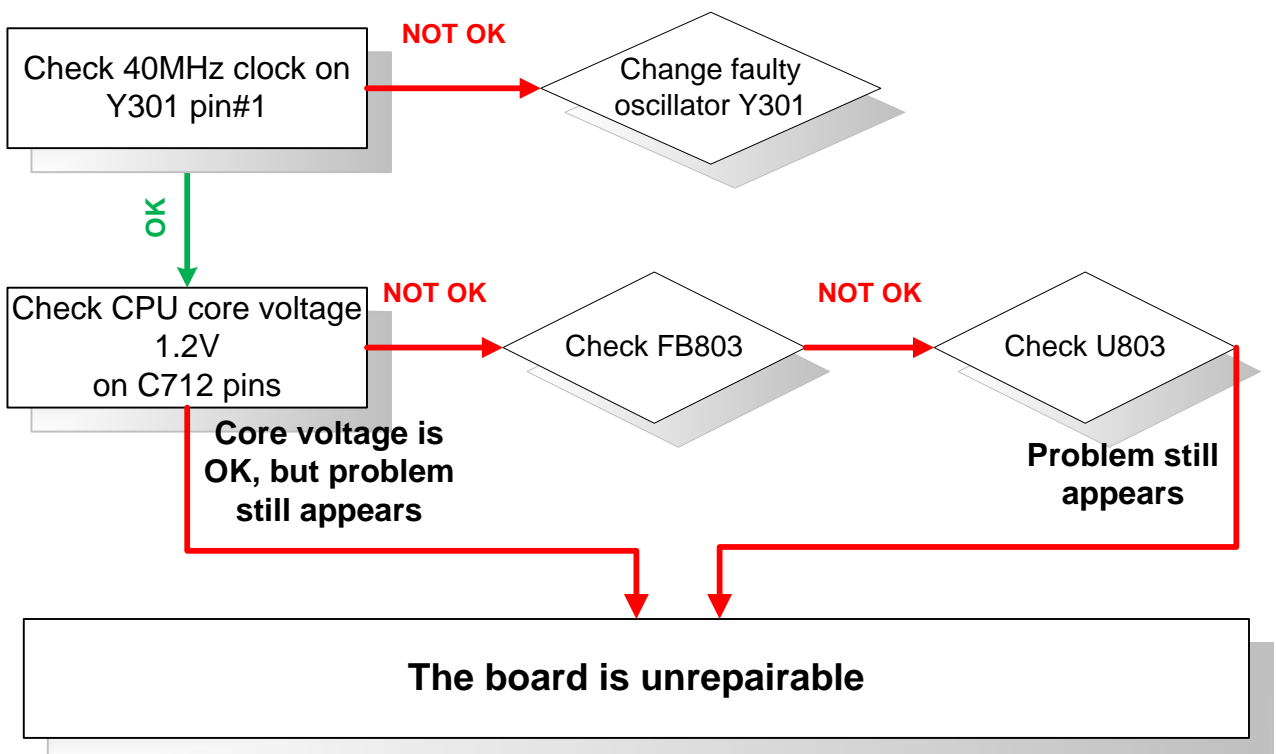
No power, blue LED doesn't shine



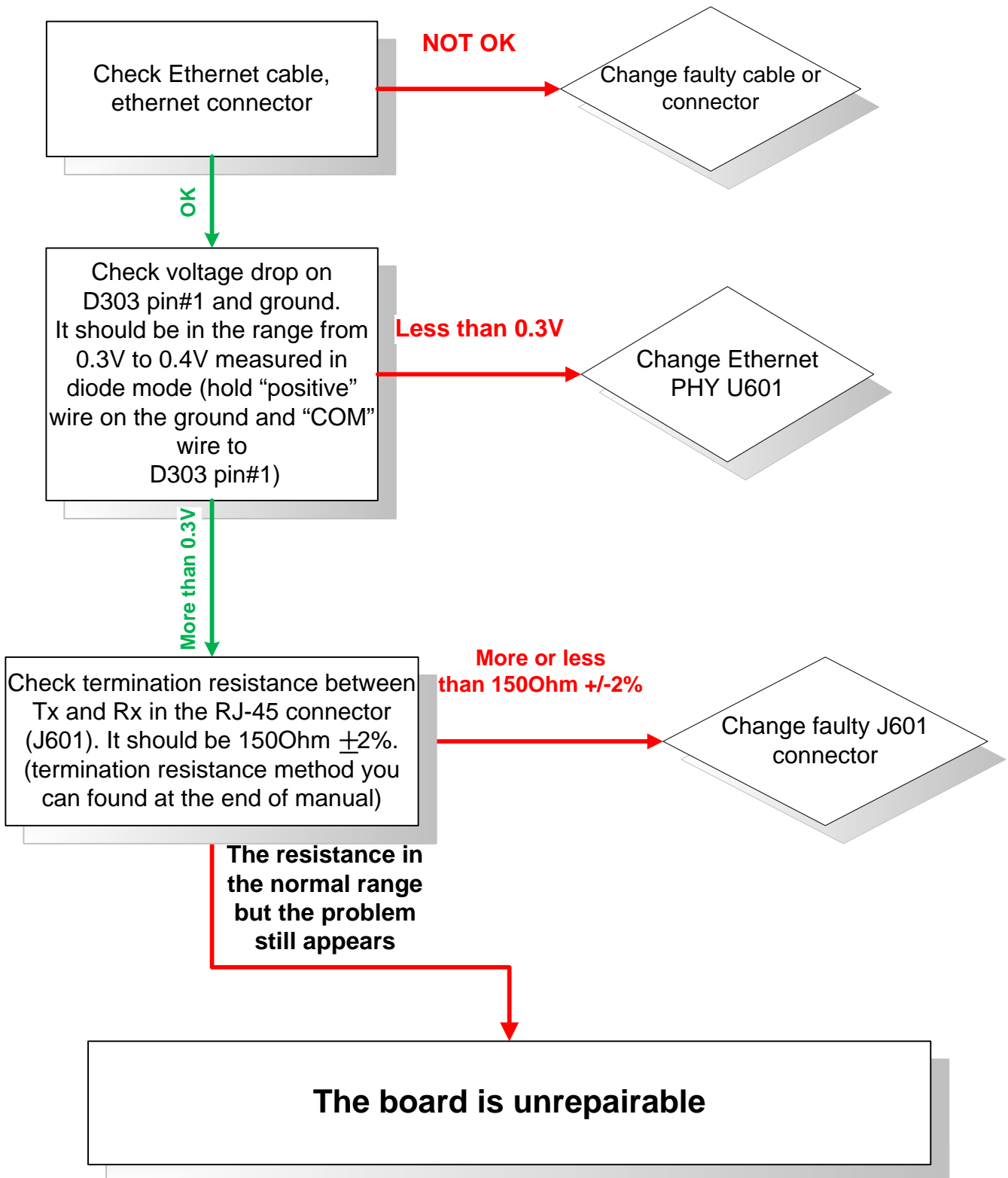
PoE doesn't work



Doesn't boot, blue LED is ON



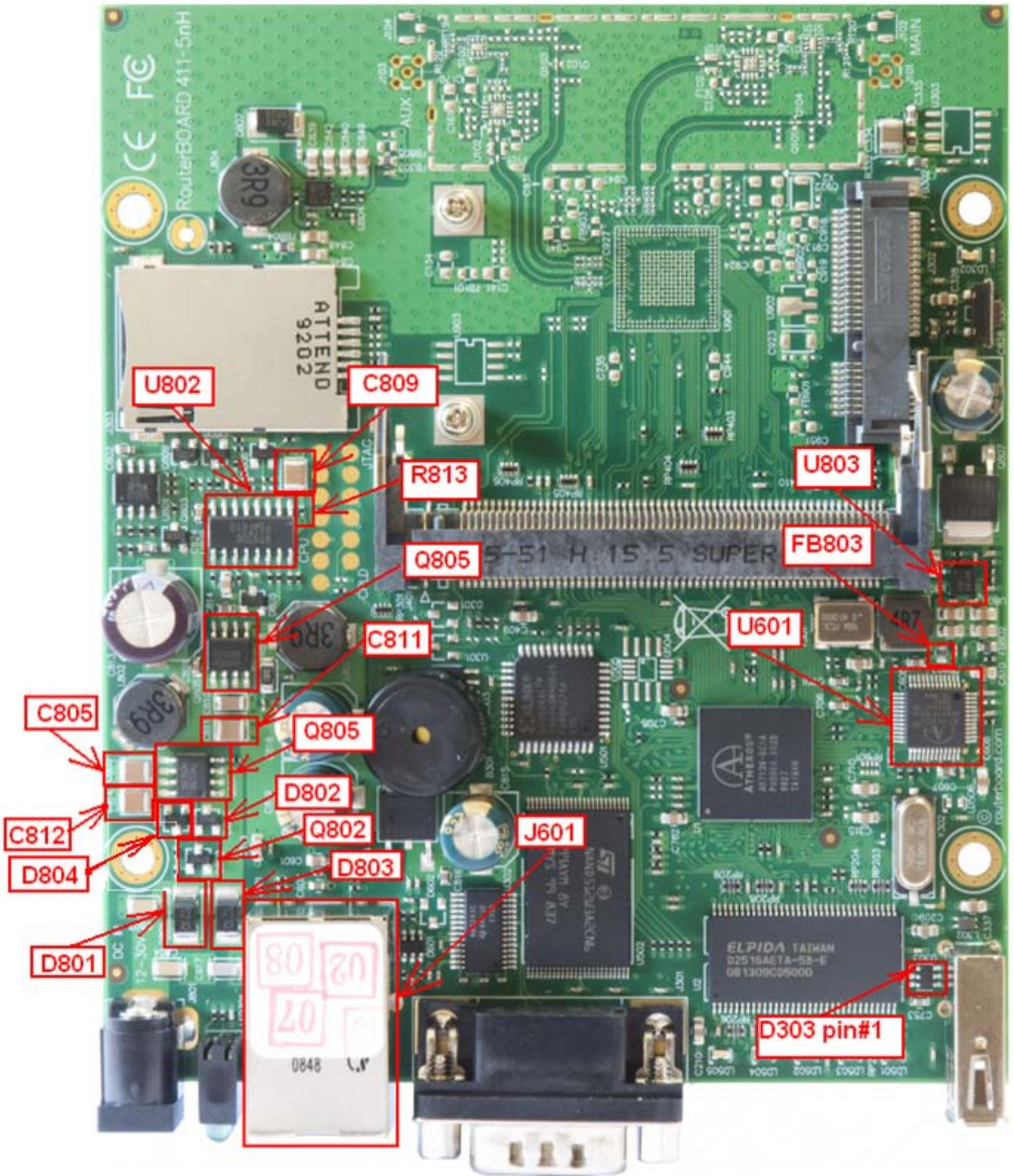
Ethernet1 doesn't work, drops ping packets



Reference number	Part Number	Manufacturer	Description
D303	TPD4S009DBVR	Texas Instruments	Diode Array with Zener, SOT23-6
D801, D803	FM2100/SMA-GP	SINYORK CO., LTD.	Diode FM2100, SMA
D802	BZX84C10/SOT23-GP	SINYORK CO., LTD	Zener Diode BZX84C10 SOT23
D804	BZX84-B27,215	NXP Semiconductors	BZX84-B27, 27V+/-2%, 0.35W, SOT23-A
FB803	BLM18EG221SN1D	Murata manufacturing Co.	Ferrite Bead 220 Ohm, 2A, 0603
R813	ERJ-2RKF10R0X	Panasonic	Resistor R10, 1%, 1/16W, 50V, 0402
J601	47F-1205BGYDNW12NL	Yuan Dean Scientific Co., Ltd	RJ45 10/100MHz With LED's and direct PoE
Q801	AP9576GM	Advanced Power Electronics Corp.	P-channel MOSFET -60V, -4A, 90mOhm, SO-8
Q802	BC856B,215	Philips AG	Small Sign PNP 250mW SOT-23
Q805	AP9960GM	Advanced Power Electronics Corp.	N-channel Dual MOSFETs,40V, 7.8A, 20mOhm, SO-8
U601	AR8012-BG1A	Atheros Technology Ltd.	Fast Ethernet PHY
U802	RT9206PS	Richtek Technology Corporation	PWM Controller, SOP-16
U803	RT8011APQW	Richtek Technology Corporation	DC-DC Step down converter, WDFN-8E
Y301	NAOD40.000-C3C	NSK Jenjaan Quartek Corporation	Oscillator 40MHz 3.3V

When you order components for repairing router boards from our sales, please, write components reference number not a part number.

RB411U Reference picture



Termination resistors measuring method.

RJ-45 connector has termination resistors between Tx and Rx lines which value should be $150\ \Omega \pm 2\%$. For resistance measurement plug patch cord with bare wires in to RJ-45 and make measurement like on the picture below.

