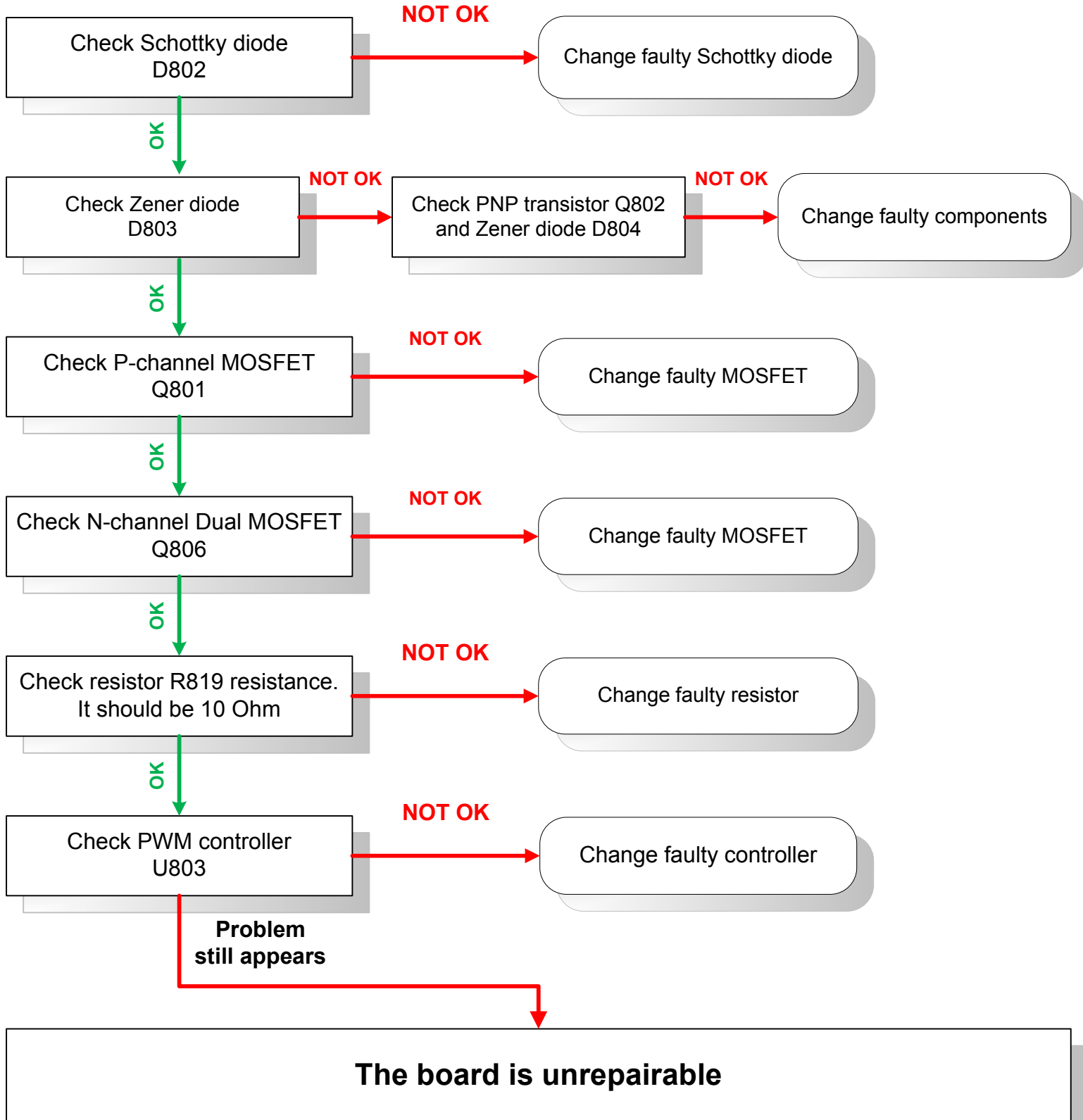


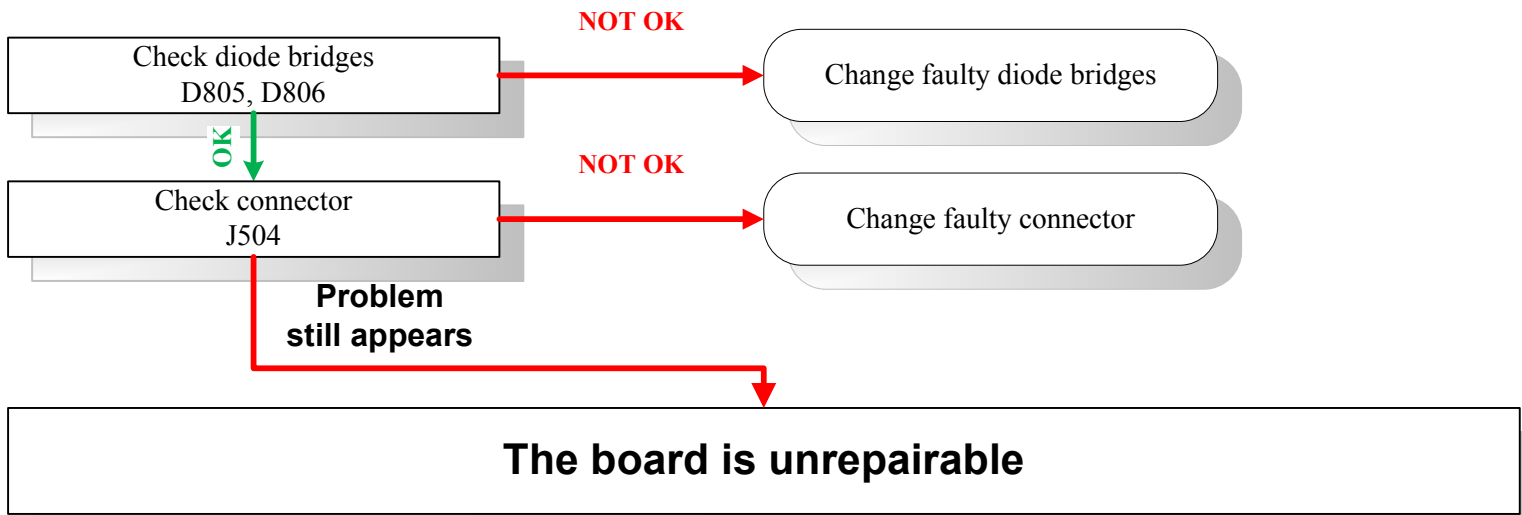
TroubleShooting for RB450G

These repair instructions are for NON WARRANTY repairs only!
Please make visual inspection for signs of corrosion or mechanical damages before starting.

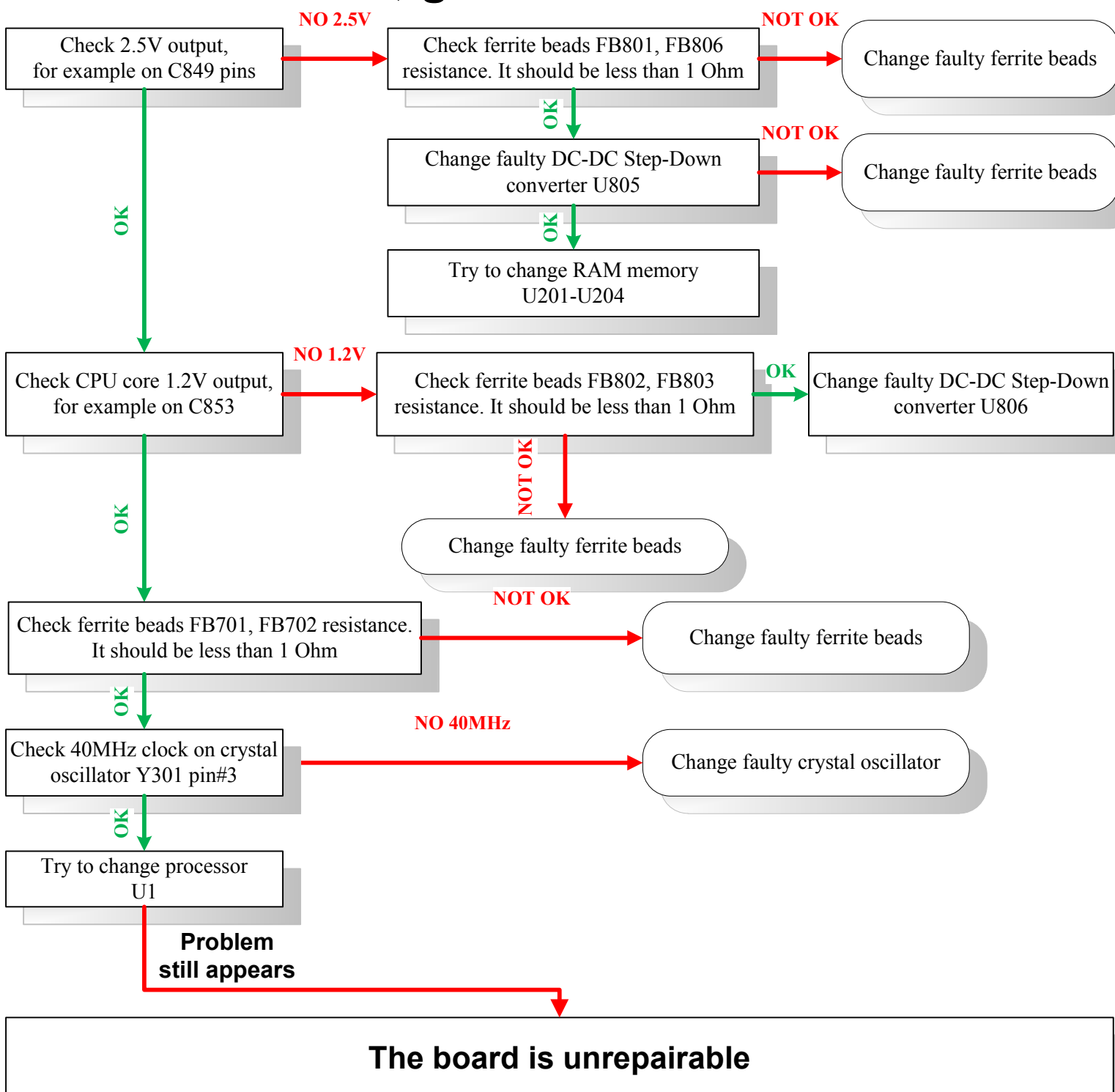
No power, blue LED doesn't shine



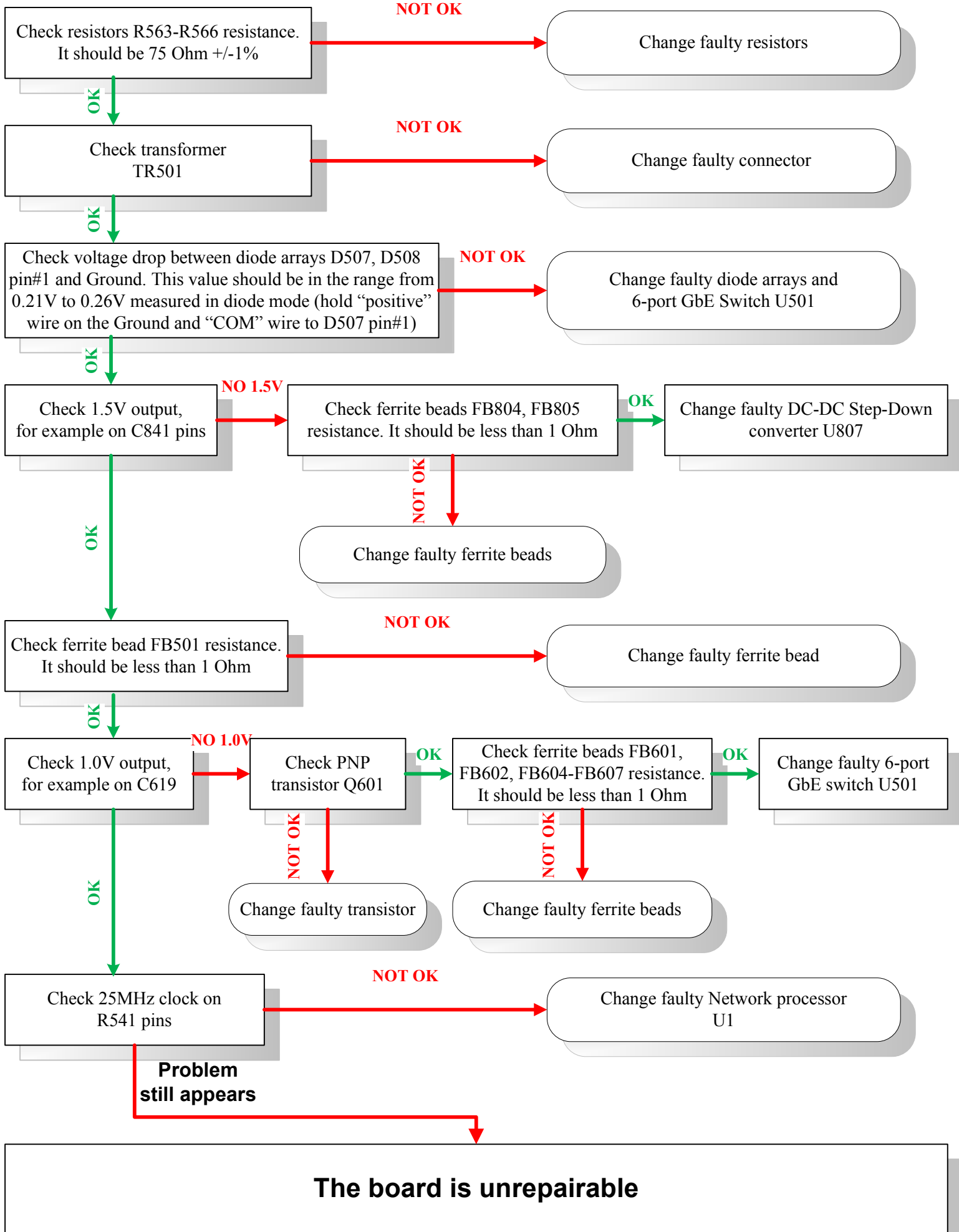
PoE does not work



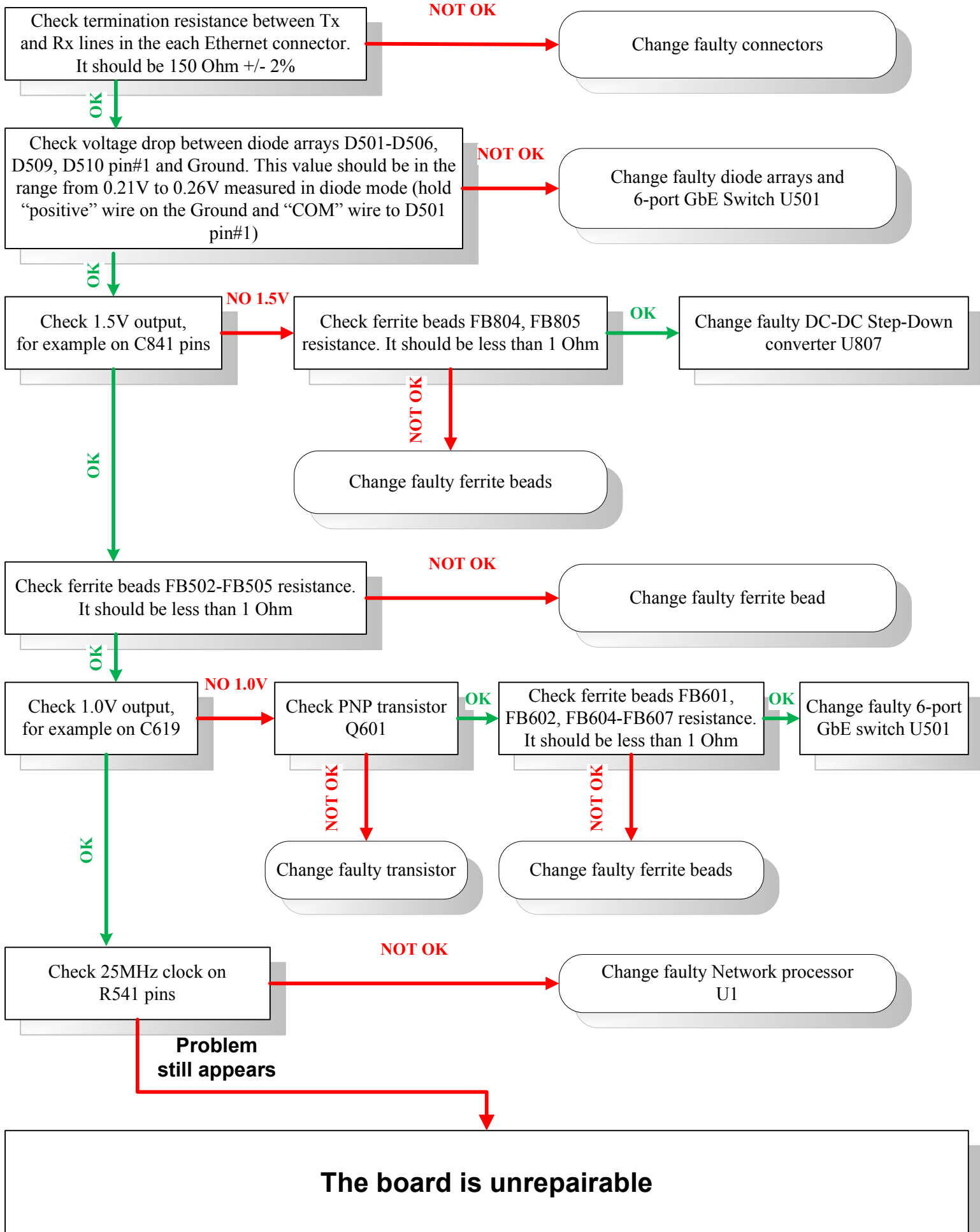
RB doesn't boot, green and blue LED's is shine



Ethernet port1 (J504) does not work, drop ping packets



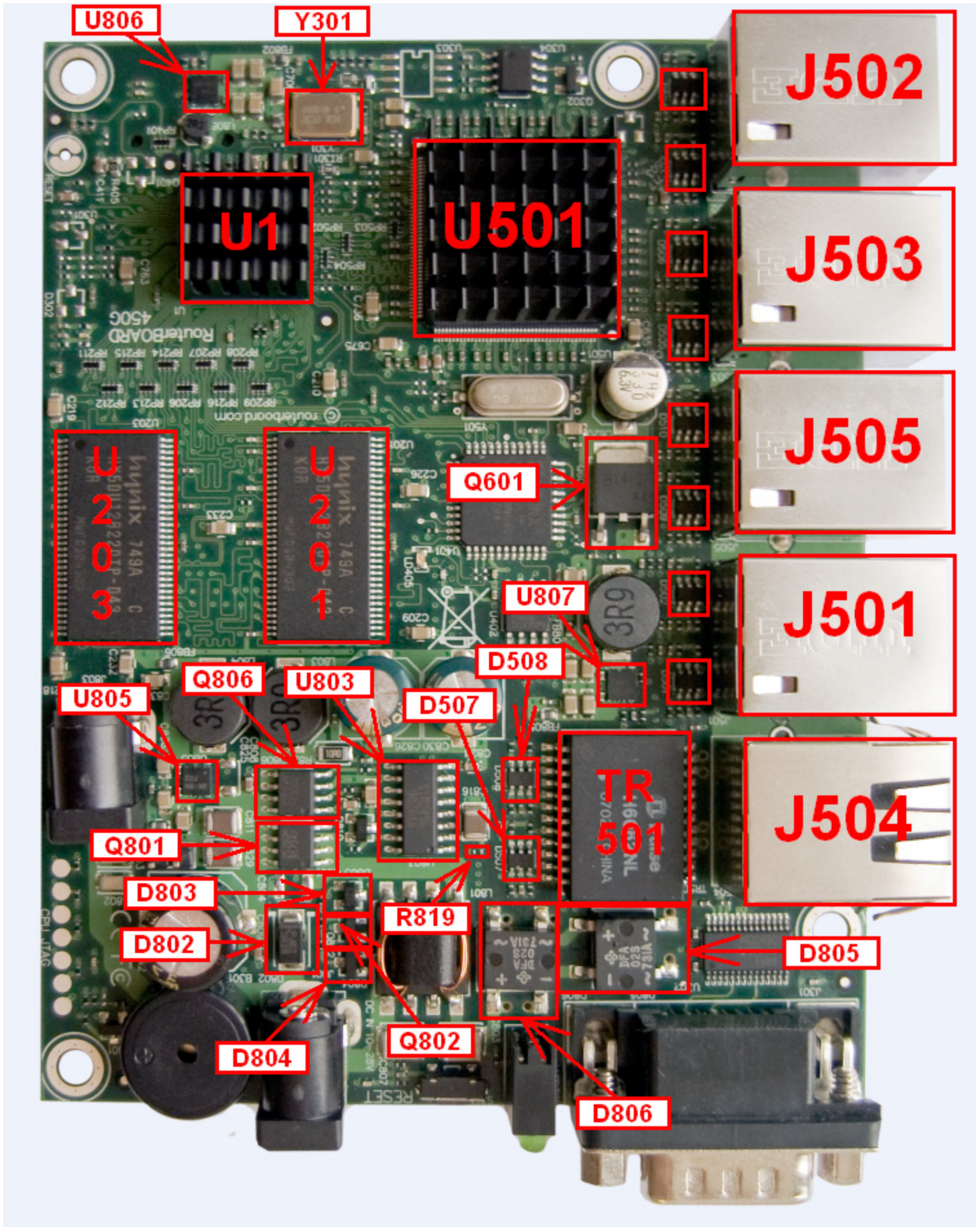
Ethernet ports 2(J501), 3(J505), 4(J503), 5(J502) do not work, drops ping packets



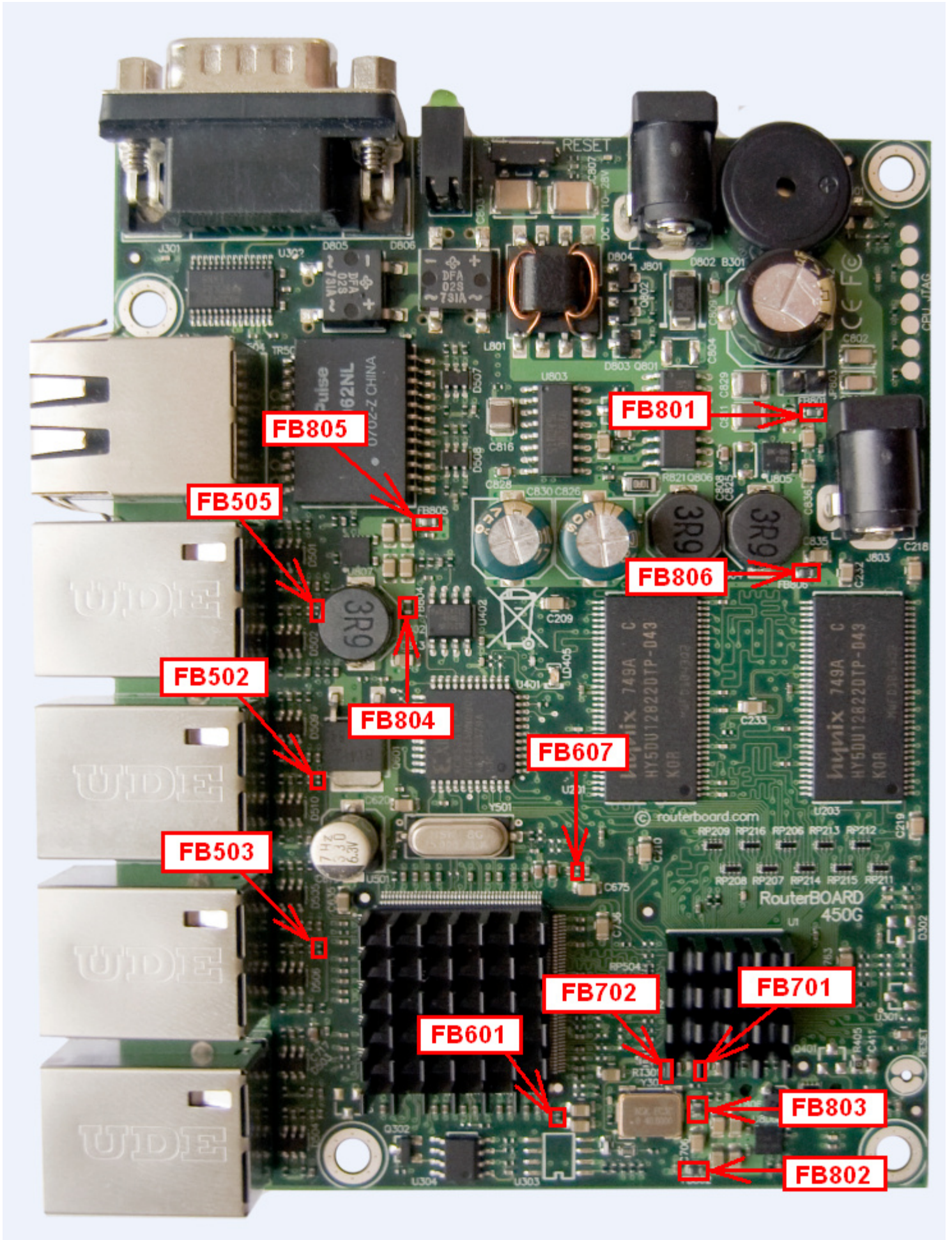
Reference number	Part Number	Manufacturer	Description
D501-D510	AOZ8000CIL	Alpha & Omega	IC TVS ARRAY LOW-CAP SOT23-6
D802	SX36-T3-LF	Won-Top Electronics Co., Ltd.	Diode Schottky 60V 3A SMA
D803	BZX84C10-T1-LF	Won-Top Electronics Co., Ltd.	Diode Zener BZX84C 10V 5% 225mW SOT23
D804	BZX84B27-AU T/R 7"	PanJit International Inc.	Z-DIODE 0.41W 27V 2% SOT23
D805, D806	DB153S	SINYORK CO., LTD.	Diode bridge 200V 1.5A DBS
FB501-FB505, FB601, FB602, FB604-FB607, FB701, FB702	BLM15AG121SN1D	Murata manufacturing Co.	Ferrite Bead 120Ohm 500mA 0402
FB801, FB802, FB805	BLM18PG331SN1D	Murata manufacturing Co.	Ferrite Bead 330Ohm 1.2A 0603
FB803	WR06X000 PTL	Walsin Technology	Resistor 0R 0603
FB804, FB806	BLM18SG121TN1D	Murata manufacturing Co.	Ferrite Bead 120Ohm 3A 0603
J501-J503, J505	RB1-216BAK1A	U.D. Electronic Corp.	RJ45 10/100/1000 w/LED w/Shield TD TH
J504	8108-B114	Powerway Electronics Co., LTD	RJ45 w/LED w/Shield TD TH w/oEMI TinPlated
Q601	STD888T4	STMICROELECTRONICS A. P	Transistor PNP -30V -5A 15W Hfe=300 D-PAK
Q801	AO4441	Alpha & Omega	Transistor MOSFET P-Ch -60V -4A 100mOhm 3W SO-8
Q802	BC856B,215	NXP Semiconductors	Transistor PNP -65V -100mA 250mW Hfe=220-470 SOT-23
Q806	AP9960GM	Advanced Power Electronics Corp.	Transistor MOSFET N-Ch Dual 40V 7.8A 20mOhm SO-8
R563 - R566	CRCW060375R0FKTAB C	Vishay Intertechnology, Inc.	Resistor 75R 1% 0603
R819	CRCW040210R0FKTDB C	Vishay Intertechnology, Inc.	Resistor 10R 1% 0402
TR501	LCZ3N1ZB	Cetus International Ltd.	10/100/1000 Single Ethernet transformer SMD
U1	AR7161-BC1A	Atheros Technology Ltd.	600MHz Network Processor (LF-AR7100X chipset)
U201 – U204	NT5DS64M8CS-5T	Nanya Technology Europe GmbH	DDR SDRAM 512Mbit DDR400 64Mx8bit TSOP118
U501	AR8316-AK1E	Atheros Technology Ltd.	6-port GbE Switch
U803	RT9206PS	Richtek Technology Corporation	Power Controller SOP-16
U805 - U807	RT8011APQW	Richtek Technology Corporation	DC-DC Step down converter, WDFN-8E
Y301	NAOD40.000-C3C-C14	NSK Jenjaan Quartek Corporation	Crystal Oscillator 40MHz 30ppm 3.3V 15pF 0+70 7x5

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

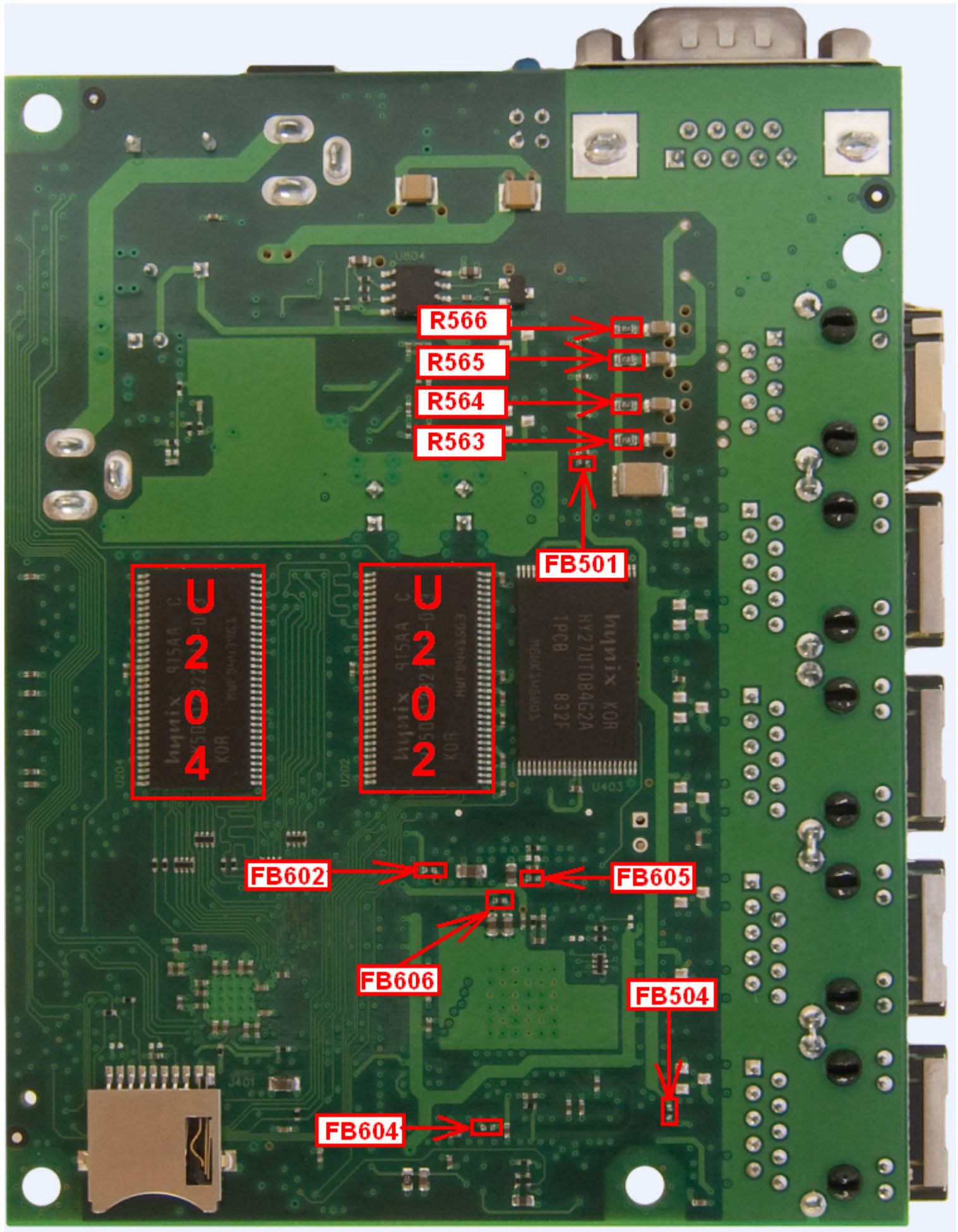
RB450G Reference picture



RB450G Reference picture



RB450G Reference picture



RB450G Output Voltage picture

