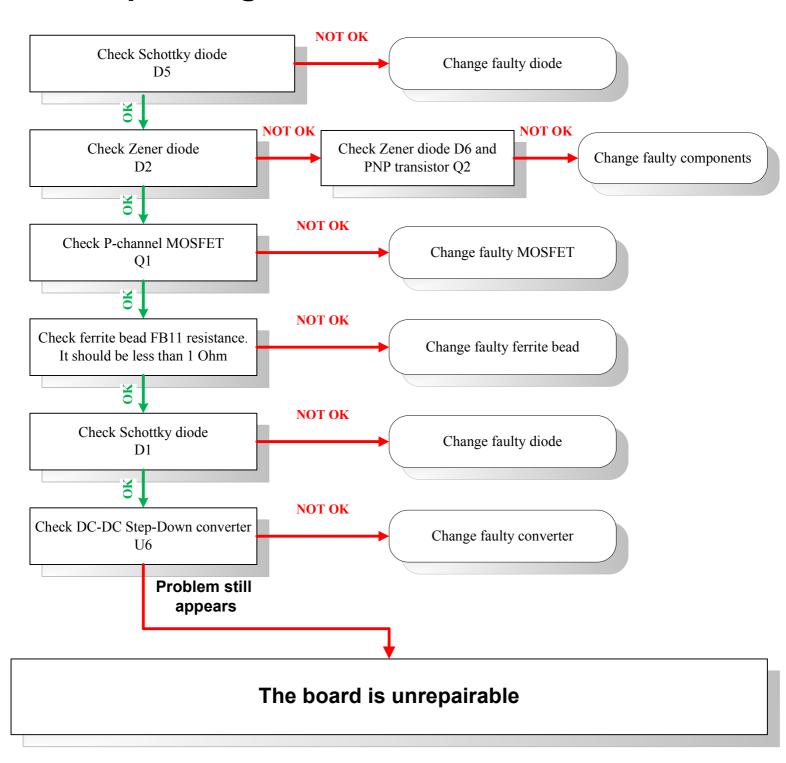
TroubleShooting for RBOmniTIK U- 5HnD

These repair instructions are for NON WARRANTY repairs only!

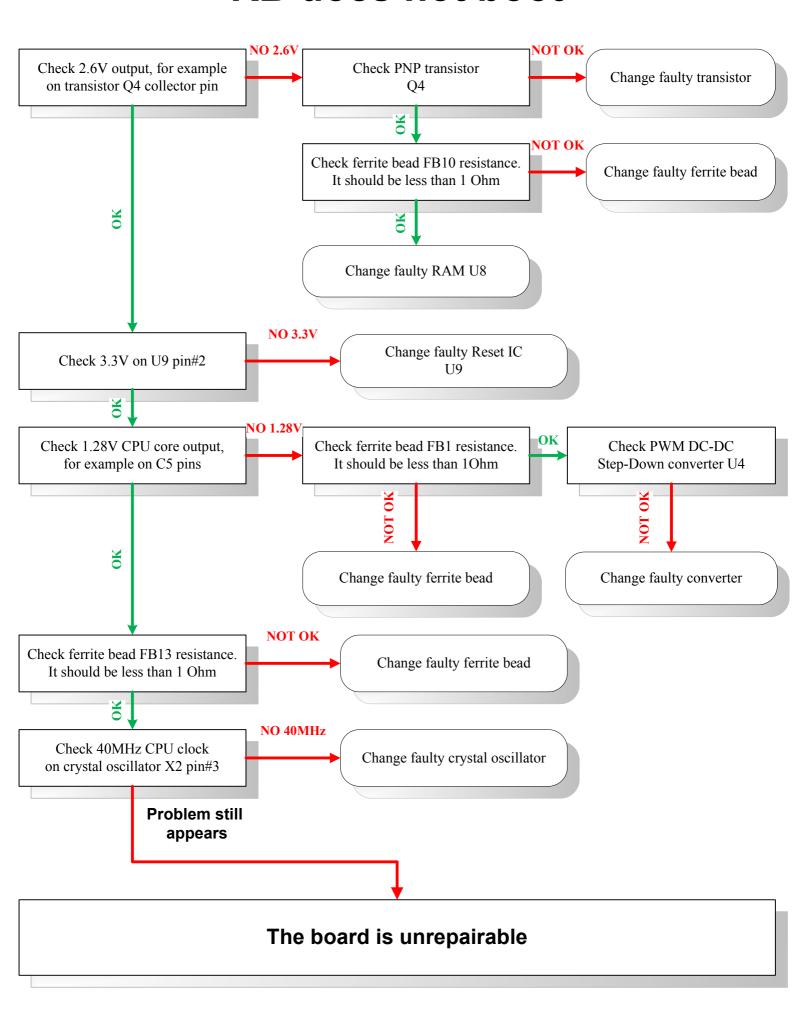
Please make visual inspection for signs of corrosion

or mechanical damages before starting.

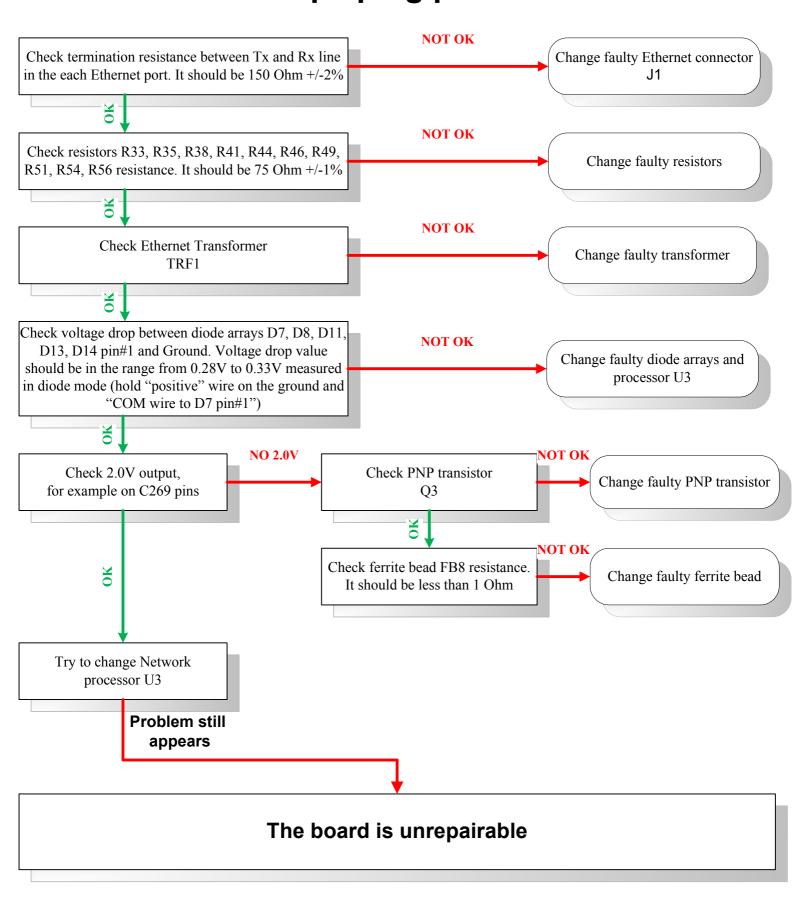
No power, green LED LD2 does not shine



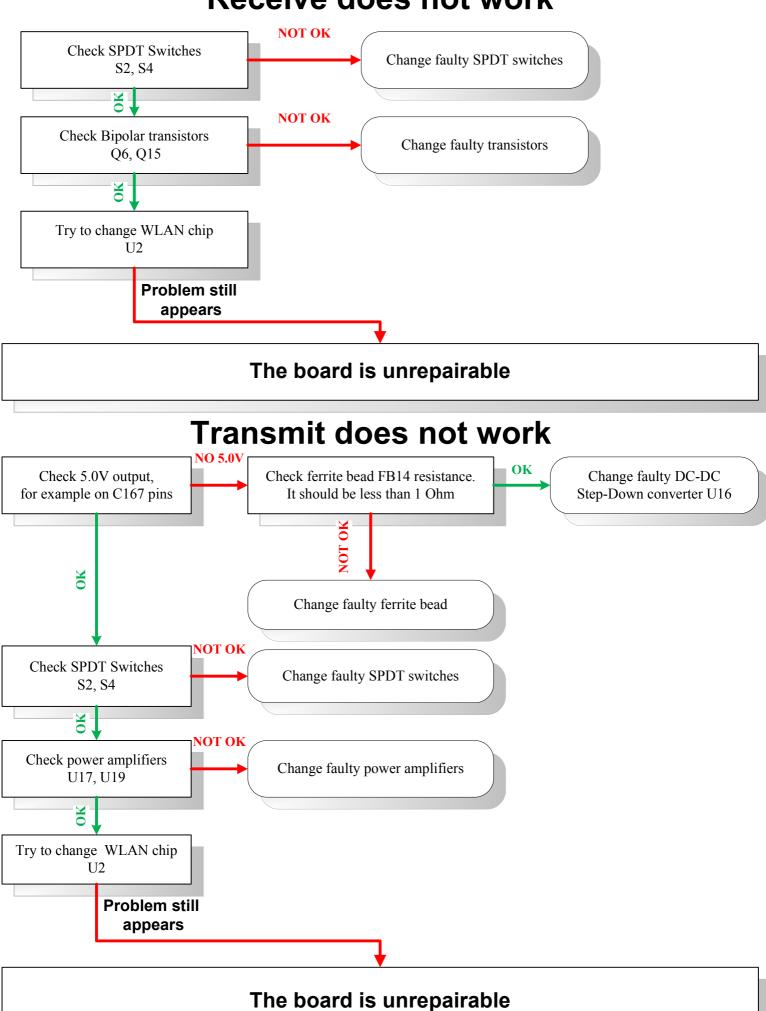
RB does not boot



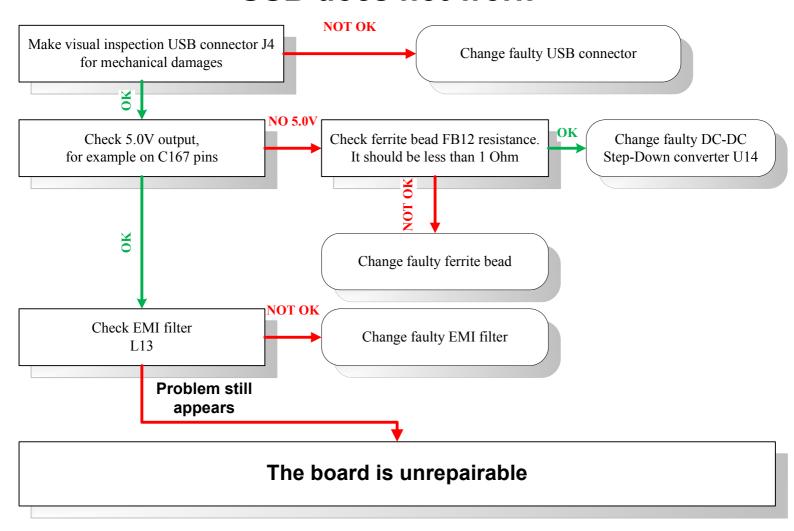
Ethernet ports 1-5 (J1) do not work, drops ping packets



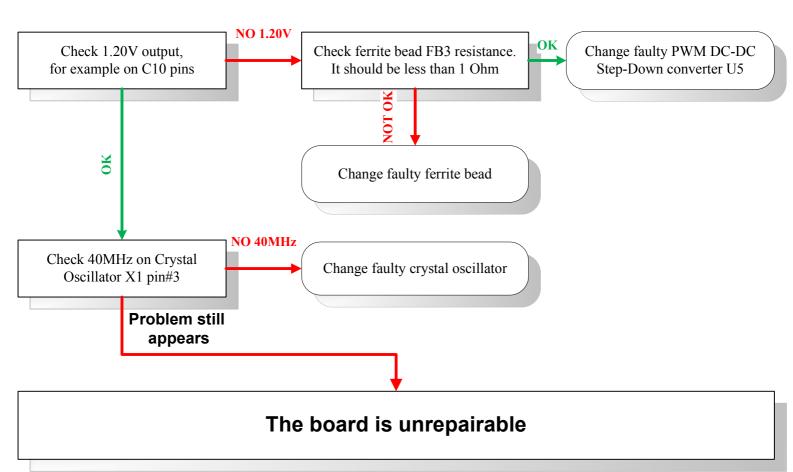
RADIO PART Receive does not work



USB does not work



Network WLAN chip AR9280 does not show in the interface menu



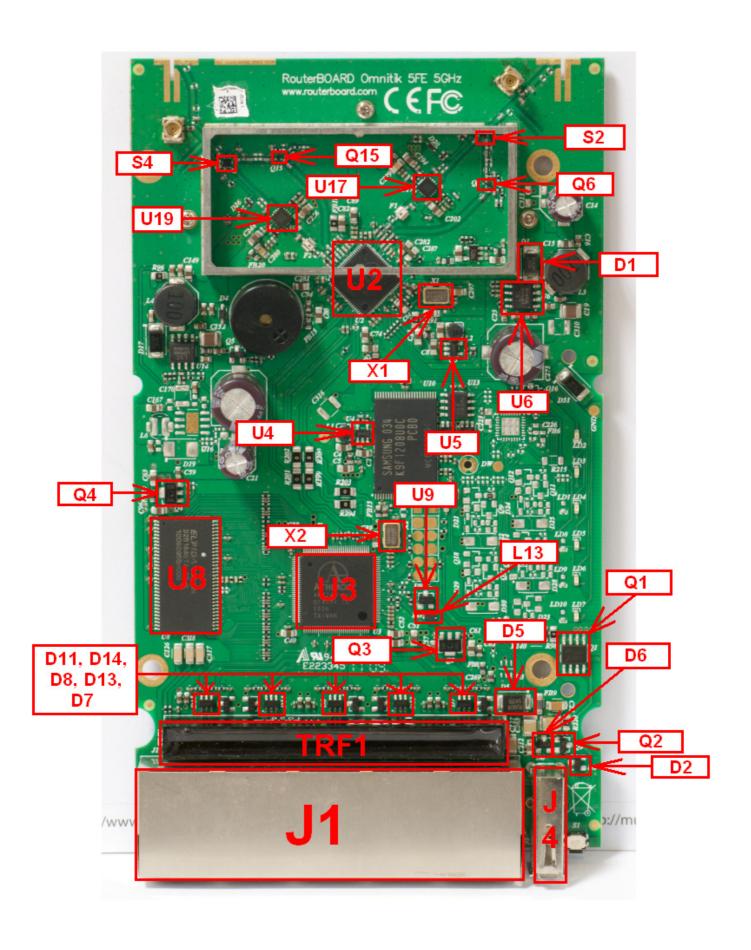
Reference number	Part Number	Manufacturer	Description
D1	SR210-T3-LF	Won-Top Electronics Co., Ltd.	Diode Schottky 100V 2A SMA
D2	BZX84C10-T1-LF	Won-Top Electronics Co., Ltd.	Diode Zener BZX84C 10V 5% 225mW SOT23
D5	SR36-GP	SINYORK CO., LTD.	Rectifier 3.0A,60V, Schottky DO-214AA
D6	BZX84-B30,215	NXP Semiconductors	Diode Zener BZX84B 30V 2% 250mW SOT23
D7, D8, D11, D13, D14	AOZ8000CIL	Alpha & Omega	IC TVS ARRAY LOW-CAP SOT23-6
FB1, FB3, FB8, FB10-FB13	BLM18PG331SN1D	Murata manufacturing Co.	Ferr Chip Beads 330 Om 1200mA, 0603
J1	8208C-B055	Powerway Electronics CO.,LTD	RJ45x5 with shield w/o LEDs
J4	USBAFDIP-605	Dragon Well Electronics Co.,Ltd.	USB Female connector, type A, DIP Right angle
L13	WCM-2012-900T	King Core Electronic Inc	USB 2.0 EMI Filter, ACM2012
Q1	AO4441	Alpha & Omega	P-Ch MOSFET -60V -4A 100mOhm SO-8
Q2	BC856B,215	NXP Semiconductors	Transistor PNP -65V -100mA 250mW Hfe=220-470 SOT-23
Q3, Q4	KTA1663-Y-RTF/P	KEC Corporation, LTD	PNP transistor Ic= -1.5A, Vce= -30V, SOT-89
Q6, Q15	BFR740L3RHE6327	Infineon Technologies Taiwan Co Ltd	SiGe Heterostructure Bipolar Transistor, DC-6GHz
R33, R35, R38, R41, R44, R46, R49, R51, R54, R56	CRCW040275R0FKTDBC	Vishay Intertechnology, Inc.	Resistor 75R 1% 0402
S2, S4	UPG2163T5N-E2-A	NEC Electronics	GaAs MMIC SPDT Switch, 2.4GHz&6GHz, 2.5-5.3V
TRF1	H7201DG	Mentech Electronics Co.,Ltd.	10/100 5 port Ethernet transformer
U2	AR9280-AL1A	Atheros Technology Ltd.	802.11n 2.4/5GHz 2x2 MIMO MAC,BB,Radio WLAN IC, PCIe
U3	AR7241-AH1A	Atheros Technology Ltd.	Network processor 400MHz, DDR1/2, USB2.0 , PCI-E, 5x 10/100 PHY LQFP128-EP
U4, U5	RT8025GJ5	Richtek Technology Corporation	1.25MHz, 400mA (works with 600mA load). PWM Step-Down DC/DC converter TSOT-23-5
U6	LSP5502SAC	Lite-On Semiconductor corporation	DC-DC Step-down converter 4.5-30V input 2A output, SO8
U8	NT5DS16M16CS-5T	NANYA TECHNOLOGY CORPORATION	DDR SDRAM 256Mbit DDR400 16Mx16bit TSOP-66 0
U9	RT9819D-29PV	Richtek Technology Corporation	Reset IC 450ms, SOT-23

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

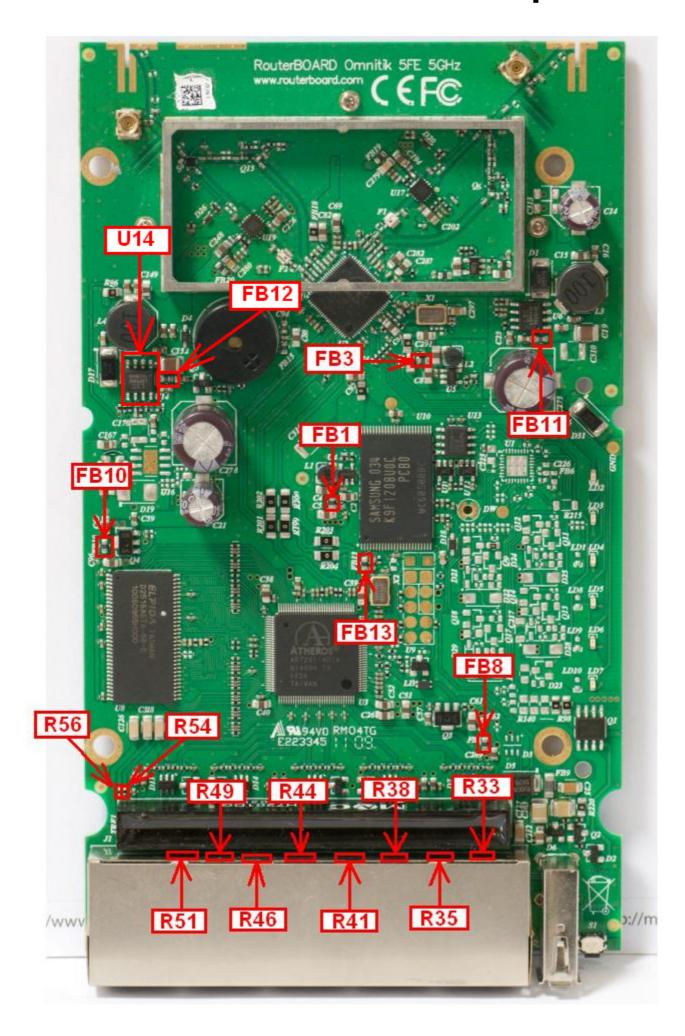
Reference number	Part Number	Manufacturer	Description
U14	LSP5502SAC	Lite-On Semiconductor corporation	DC-DC Step-down converter 4.5-30V input 2A output, SO8
U17, U19	LX5530LQ-TR	Microsemi Corporate	InGaP HBT 4.5-6.0 GHz Power Amplifier
X1, X2	FD4000130	PSE Technology Corporation	Crystal Oscillator 40MHz 10ppm 1.8V 15pF -20+75 5x3.2

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RBOmniTIK U-5HnD Reference picture



RBOmniTIK U-5HnD Reference picture



RBOmniTIK U-5HnD Output Voltage picture

