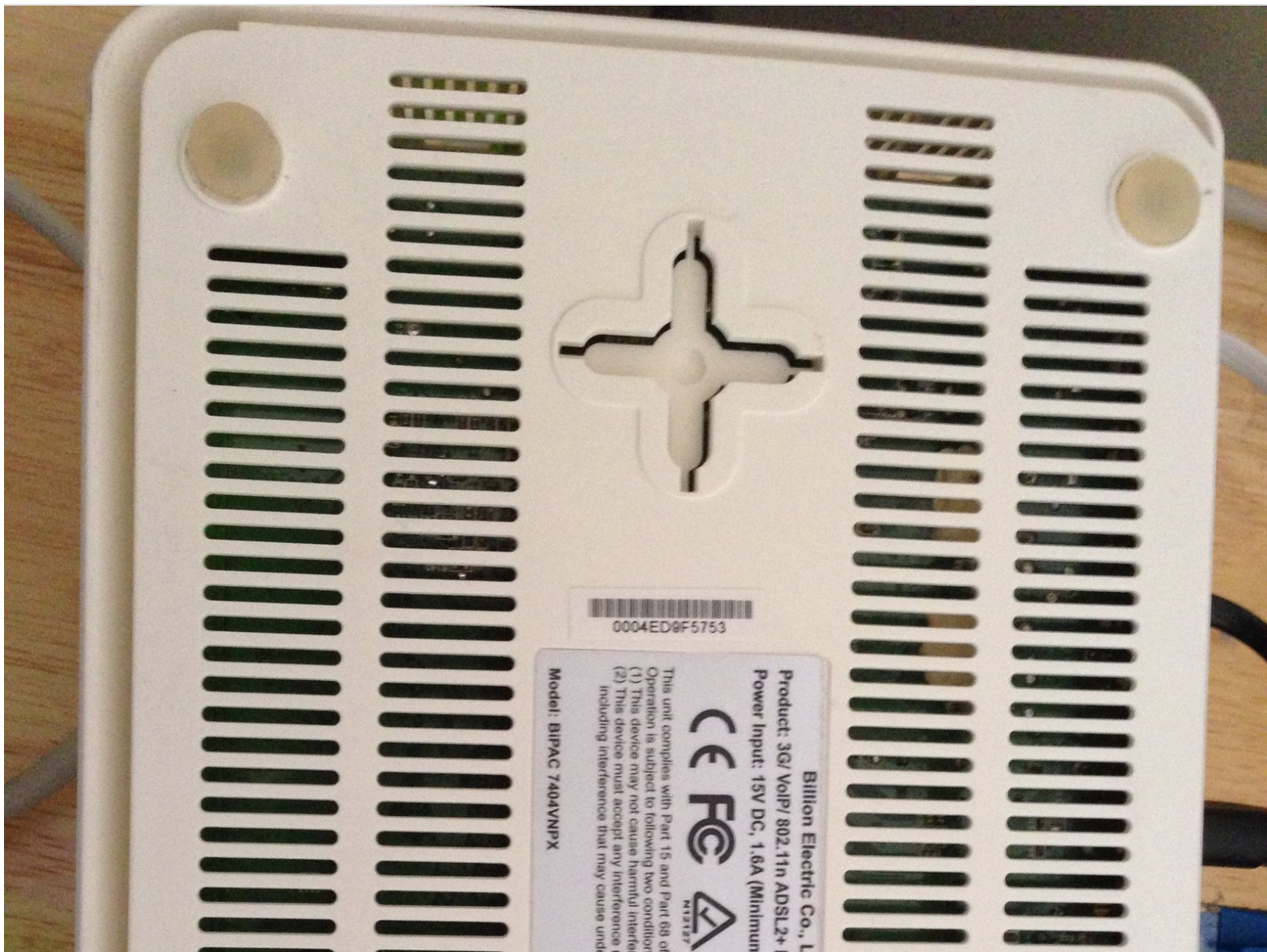# Repairing Billion Router BiPAC 7404VNPX VOIP

VOIP had Failed, after researching on the internet I found a forum page which gave a fix for a similar model. http://forums.whirlpool.net.au/archive/1994685 Replacing 2 capacitors fixed the VOIP

Written By: mikejgrantham

0004ED9F5753

Model: BiPAC 7404VNPX

Billion Electric Co., L
Product: 3G/ VoIP/ 802.11n ADSL2+
Power Input: 15V DC, 1.6A (Minimum

This unit complies with Part 15 and Part 68 of
Operation is subject to following two condition
(1) This device may not cause harmful interfer
(2) This device must accept any harmful interfe
including interference that may cause und

CE FC

N13127

This document was generated on 2020-11-14 09:50:20 PM (MST).

© iFixit — CC BY-NC-SA   www.iFixit.com   Page 2 of 5

INTRODUCTION

VOIP had Failed, after researching on the internet I found a forum page which gave a fix for a similar model. Replacing 2 capacitors fixed the VOIP

TOOLS:

- Phillips #00 Screwdriver (1)
- Soldering Iron (1)
- Solder (1)
- Desoldering Pump (1)

PARTS:

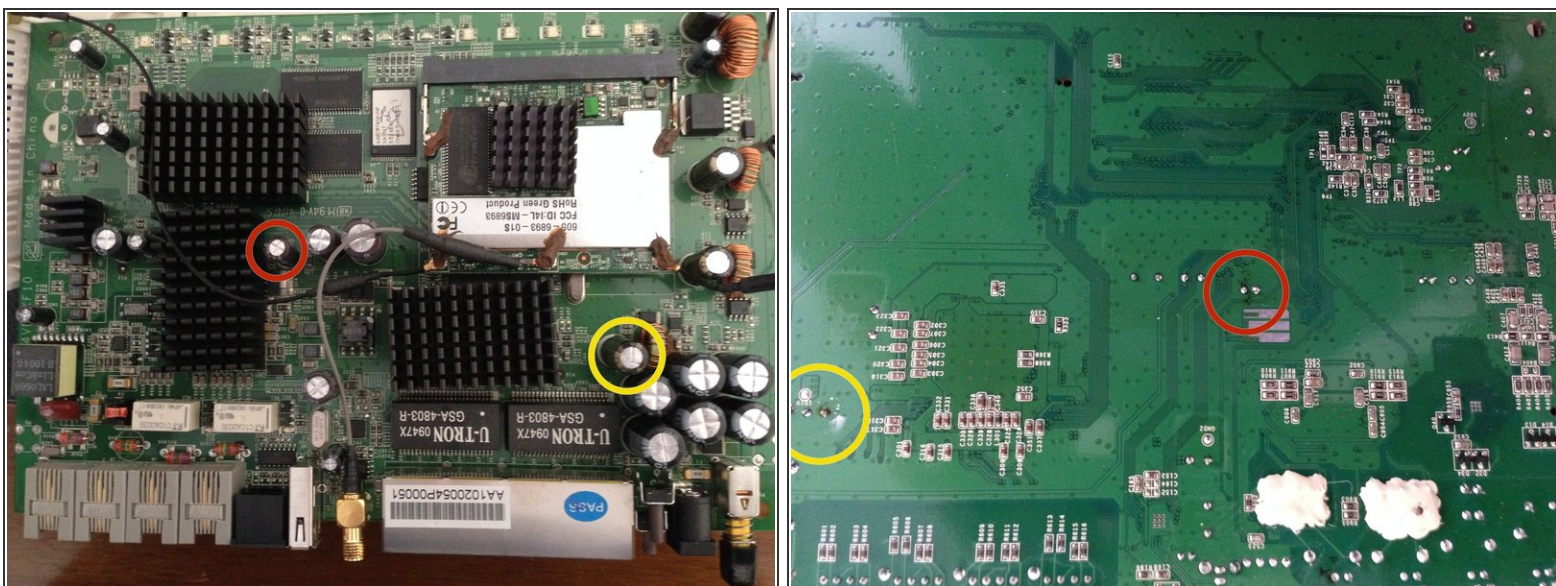- 100 uF 25v low ESR Capacitor (1)
- 1000 uF 10v low SER Capacitor (1)

This document was generated on 2020-11-14 09:50:20 PM (MST).

Step 1 — Repairing Billion Router BiPAC 7404VNPX VOIP

- Turning the Router over you find 4 rubber feet hiding 4 Philips head screws.

- Remove the screws and turn the router back upright.

- The top of the case should now lift off.

Step 2

- The C928 Capacitor 100uF 25v is the one talked about in the forum mentioned in the intro.

- While I was checking the solder side of the board I noticed there was a bad solder joint on this cap. You cant see it at this resolution though.

- While checking the state of the other caps on the board I noticed that this one 1000uF 10v was also showing signs of heat stress.

- Both capacitors were replaced.

- You can see the new caps in position on the right.

- For the princely sum AU $1.20 in parts, 20 mins setting up, 5 mins to fix, 5 mins to put it all away I have saved myself aprox $200 for a new VOIP router :)

To reassemble your device, follow these instructions in reverse order.

This document was generated on 2020-11-14 09:50:20 PM (MST).