

RTS-TB-003**20-June-2012**

Reversed Capacitor on RVON Cards Causes Communication Errors

Issue Severity:	Product(s) Affected:
<input type="checkbox"/> High: URGENT – Immediate Action Required <input type="checkbox"/> Medium: Bosch Security Systems, Inc. strongly recommends you take the action(s) described below. <input checked="" type="checkbox"/> Low: Advisory	<ul style="list-style-type: none">• All RVON variants
Notification Applies To:	Access Restrictions:
<input checked="" type="checkbox"/> Technical Support (TSS) <input checked="" type="checkbox"/> Repair (ASA) <input checked="" type="checkbox"/> Sales (NSO / RSO)	<input type="checkbox"/> Internal Distribution <u>ONLY</u> <input checked="" type="checkbox"/> <u>No</u> Restrictions (Internal & External Distribution)

1.0 Issue

Multiple customers have reported communication errors on both the serial and Ethernet links of their RVON networking cards. Additional troubleshooting in the engineering lab revealed that a capacitor had accidentally been reversed in orientation during manufacturing. This reversed capacitor degrades over time and generates communication errors.

2.0 Resolution / Corrective Actions

This problem can be eliminated by re-work of the reversed capacitor according to the following rework instructions. This rework instruction includes 2 parts:

Part 1: Applies to all RVON cards

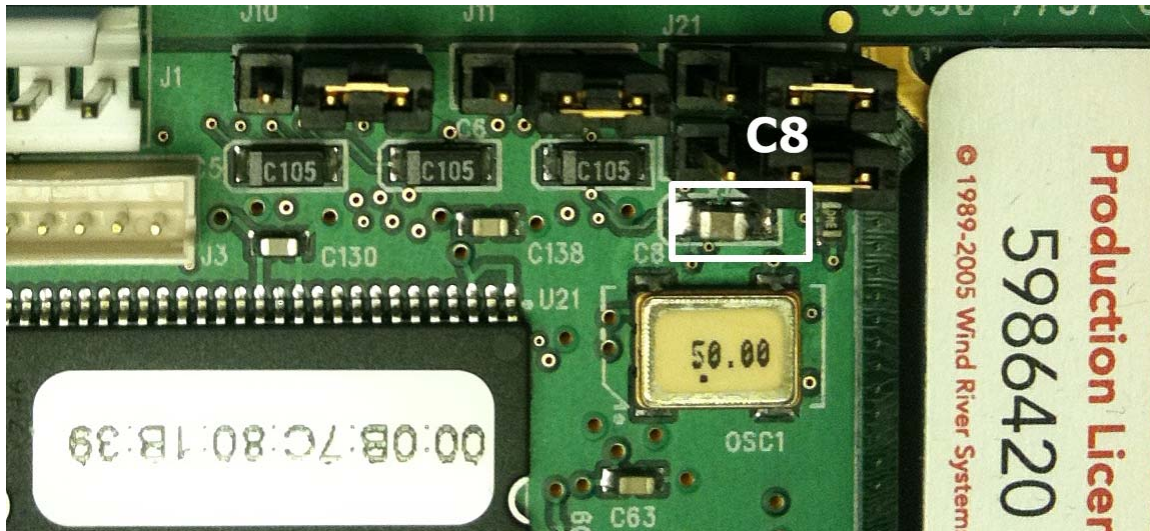
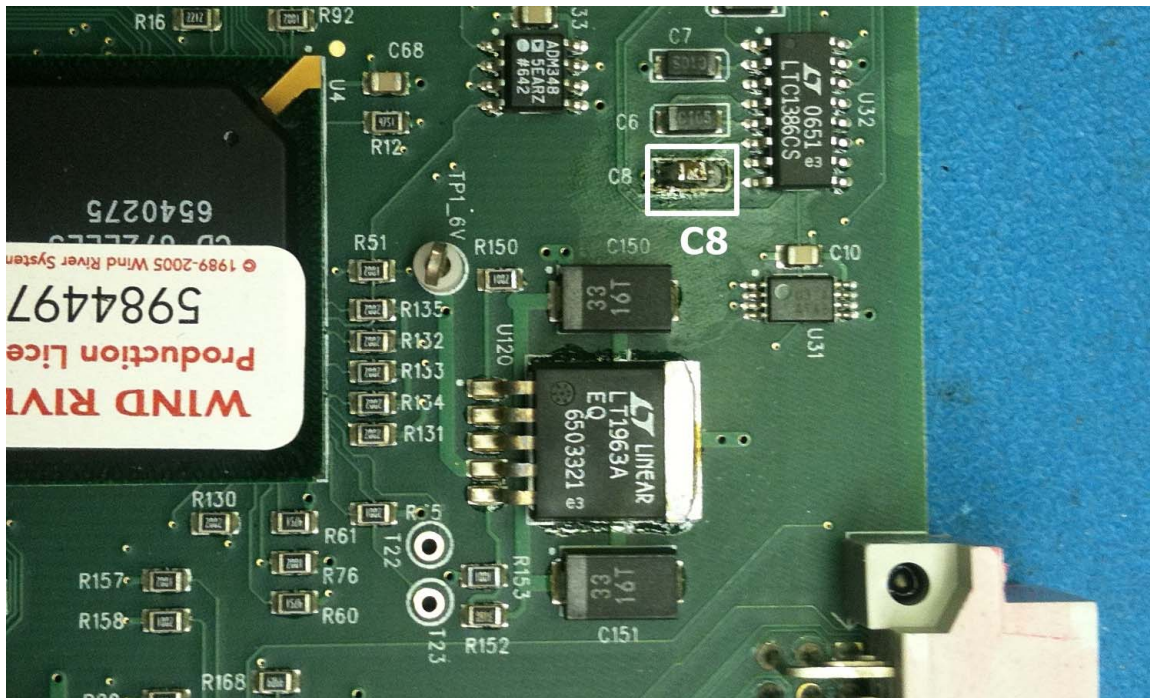
Old part number: 102877012

New part number: 102881882, NIC, NMC1206X7R105K50TRP

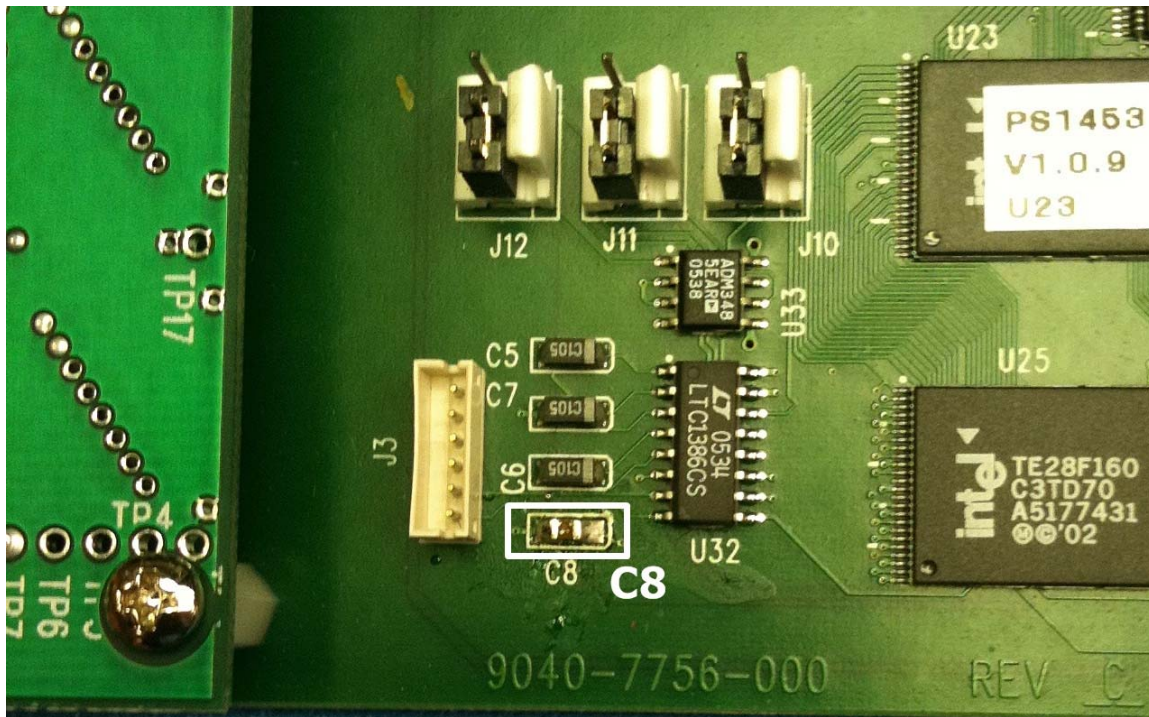
In case the particular NIC cap is not available, a similar cap can be used, i.e. 1206, 1uF, X7R or X5R, the minimum voltage requirement is 16V.

CARD	NAME	REFDES
90307757000 90307757001 90307757900 90307757901	RVON 1	C8
90307757100	RVON 1, RVON-I/O VERSION	C8
90307835000	CRONUS RVON FRONT CARD	C8
90307756000	ADAM RVON-8 VOIP CARD	C8
90307848000	ADAM RVON-16 FRONT CARD	C21
90307877000	RVON-2 FOR KP32CLD	C66
90307877001	RVON-2 FOR DKP16CLD	C66
90307877002	RVON-2 FOR KP12CLD	C66

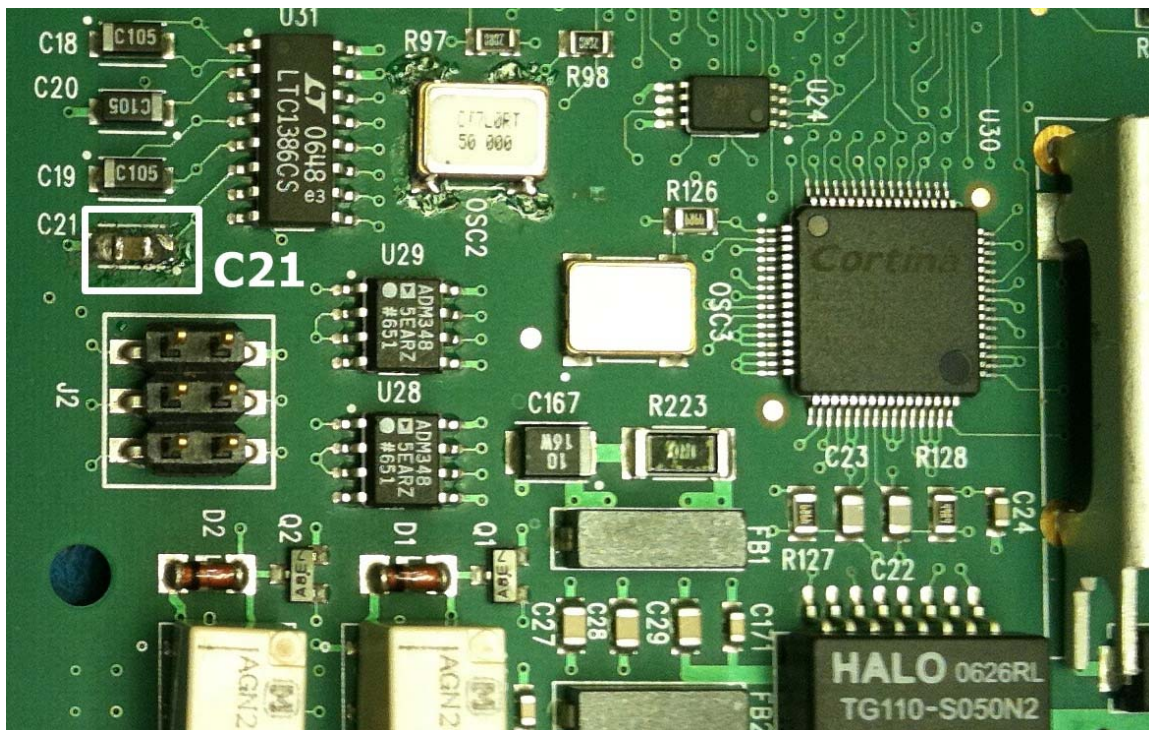
a) RVON 1 & RVON-I/O

**b) CRONUS RVON**

c) ADAM RVON-8

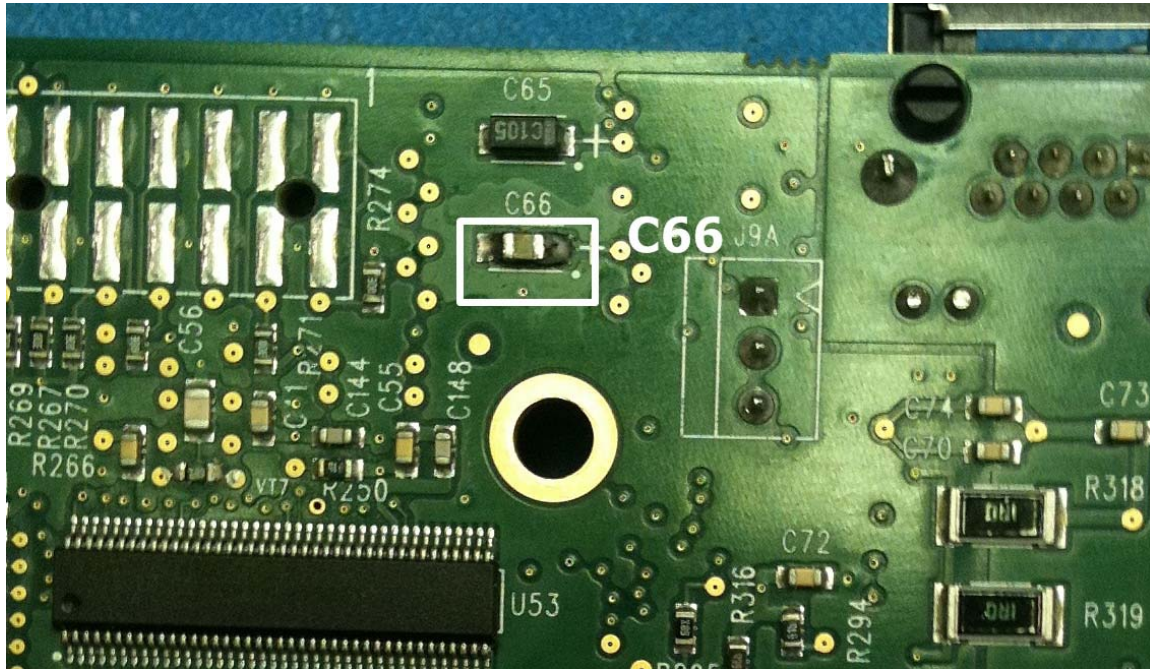


d) ADAM RVON-16



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e) RVON2 FOR CLD series

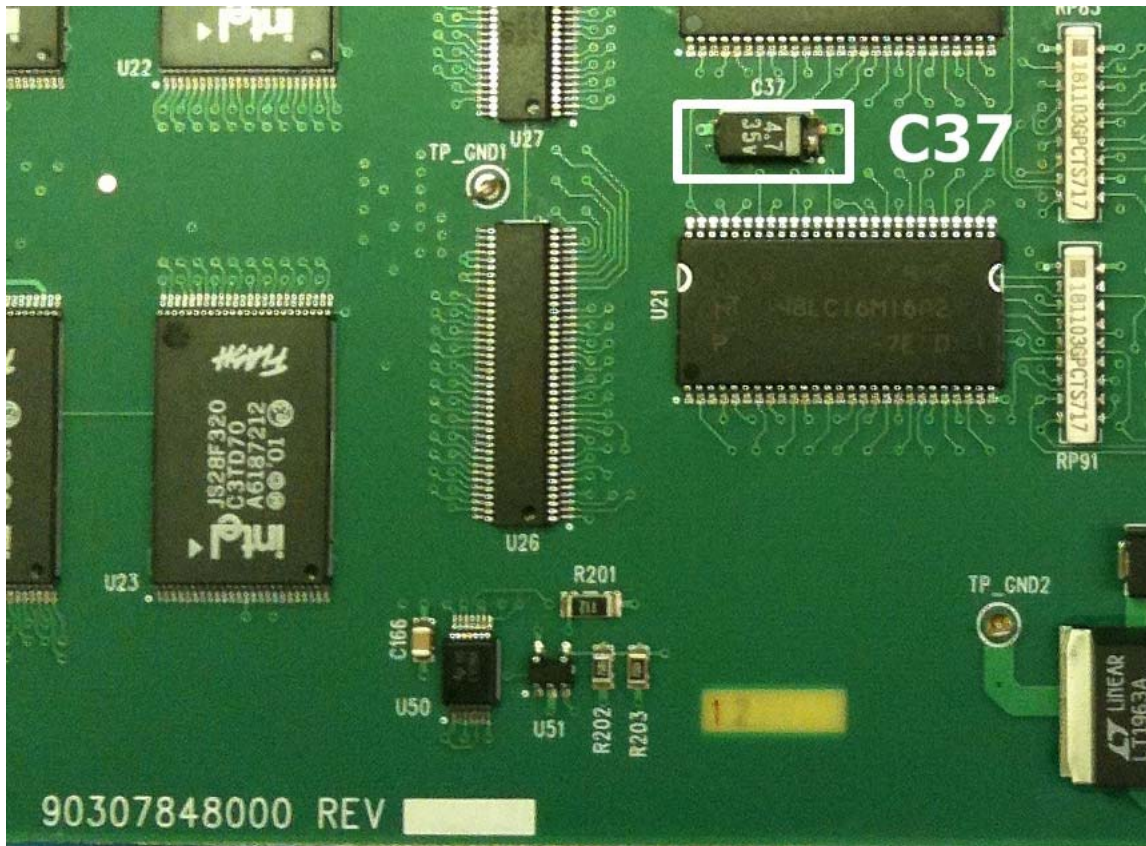


Part 2: Applies to ADAM RVON-16 Card ONLY

C37 was soldered upside down on RVON-16: 90307848000. It should be replaced with a new capacitor per the silk screen orientation indication dot.

Supplier Part number: 102877027, NIC, NTC-T475K25TRCF or NTC-T475M25TRCF

In the event that the particular NIC cap is not available, a similar cap can be used, i.e. 2412, 4.7uF, tantalum or ceramic, the minimum voltage requirement is 16V.



Note:

DO NOT reverse the old cap and solder it back for either modification. **ALWAYS** use a new capacitor.