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## **Technical Document**

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# **i7770BAS Change Description**

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|  | type: Technical Document<br>title : i7770BAS Change Description | Page : 2 / 9<br>Version: 1.0<br>Date : 29/01/08 |
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## UPDATE

| version | Date     | Nature of modifications | Author |
|---------|----------|-------------------------|--------|
| 1.0     | 29/01/08 | Creation                | RdIT   |

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|---|---|---|
|  | type: Technical Document<br>title : i7770BAS Change Description | Page : 3 / 9<br>Version: 1.0<br>Date : 29/01/08 |
|---|---|---|

## INTRODUCTION

I7770BAS A has been moved to I7770BAS B in order to gain strength against electrostatic discharges. Moreover, we have improved Bluetooth module fastening.

## 1. CHANGES DESCRIPTION

I7770BAS contains just a mother board, with basically a micro (and related electronics), Bluetooth module, modem and power supplies.

| I7770BAS A            | I7770BAS B            |
|-----------------------|-----------------------|
| MER226D               | NER226H               |
| BTv3 Bluetooth module | BTv3 Bluetooth module |
| SM14 modem            | SM14 modem            |

Therefore, as modifications only apply to mother board, we'll explain modifications related to this PCB.

MER226 has changed its layout in order to assembly new Bluetooth fastening and also we've added ICT for manufacturing purposes.

Ferrites on contacts have been added in order to gain strength against ESD.

### 1.1 MER226 schematics

**I7770BAS A Schematics**  
MER226D\_schem.pdf

**I7770BAS B Schematics**  
MER226H\_schem.pdf

## 1.2 MER226 layout

**I7770BAS A gerbers**  
MER226D\_gerbers.pdf

**I7770BAS B gerbers**  
MER226H\_gerbers.pdf

Layout has changed; main difference is that in new MER226 PCB there's a gap (there's not any line) around base contacts of 8mm to completely isolate it.

## 1.3 MER226 part list

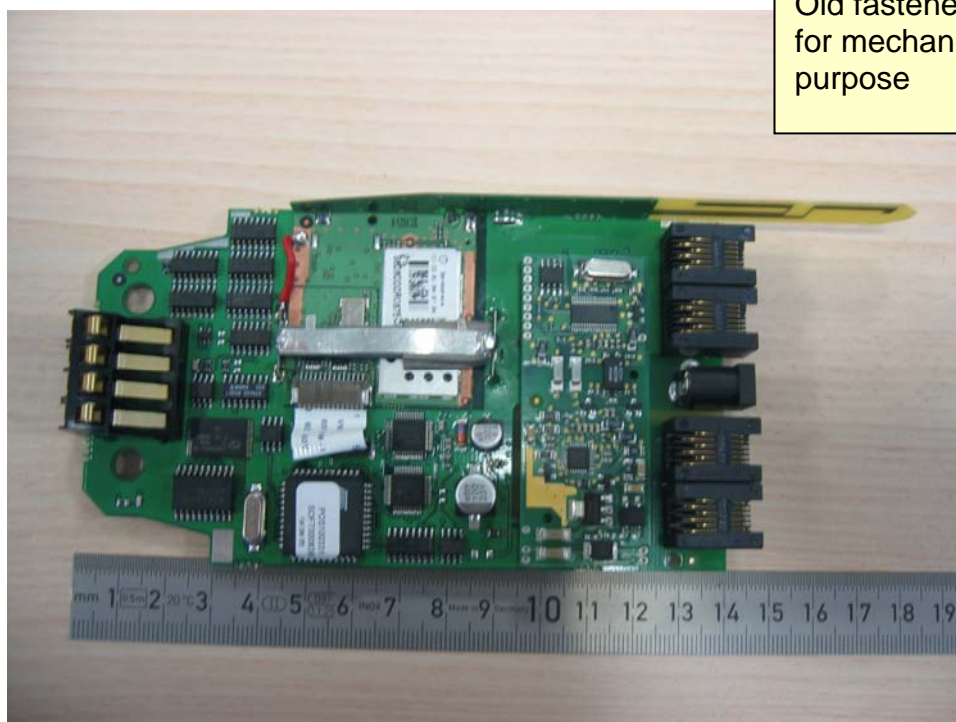
**I7770BAS A part list**  
MER226D\_partList.pdf

**I7770BAS B part list**  
MER226H\_partList.pdf

Only modification commented above: 4 ferrites added

## 1.4 Bluetooth module fastener

**I7770BAS A fastener**



Old fastener: Just for mechanical purpose







## I7770BAS B fastener

New fastener:  
Connect modul  
to GND

