



Dual SIM selection

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Ver. 3

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1 Introduction

This document aims to help those who want to connect two or more SIM holders to the same module and use them once at time.



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2 SIM selection

The Telit modules can already support more than 1 SIM card.

The SIM selection circuit, described below, can be applied to our modules (UC, GC, GE, GM). It is suggested to use 3 distinct GPIOs, CMOS 2.8V (X, Y, Z) to have full control con VCCSIM supply and SIM selection on the multiplexer.

Following the SIM_selection schematic, GPIO_X is used to supply SIMA, GPIO_Z to supply SIMB and GPIO_Y to select SIM_A or SIM_B (Solution A)

SIM_A

```
AT#GPIO=X,1,1
```

```
AT#GPIO=Z,0,1
```

```
AT#GPIO=Y,0,1
```

```
AT+CFUN=4 (ALL SW versions) or AT#SIMDET=0 (7.03.x00)
```

SIM_B

```
AT#GPIO=X,0,1
```

```
AT#GPIO=Z,1,1
```

```
AT#GPIO=Y,1,1
```

```
AT+CFUN=1 (ALL SW versions) or AT#SIMDET=2 (7.03.x00)
```

If the user doesn't need SIM hot removal (e.g. change SIM_A/B with a third SIM_C when SIM_A/B are selected), he can ground SIMIN pin on module side and use AT#SIMDET=0/1 on the above procedure (Solution B).

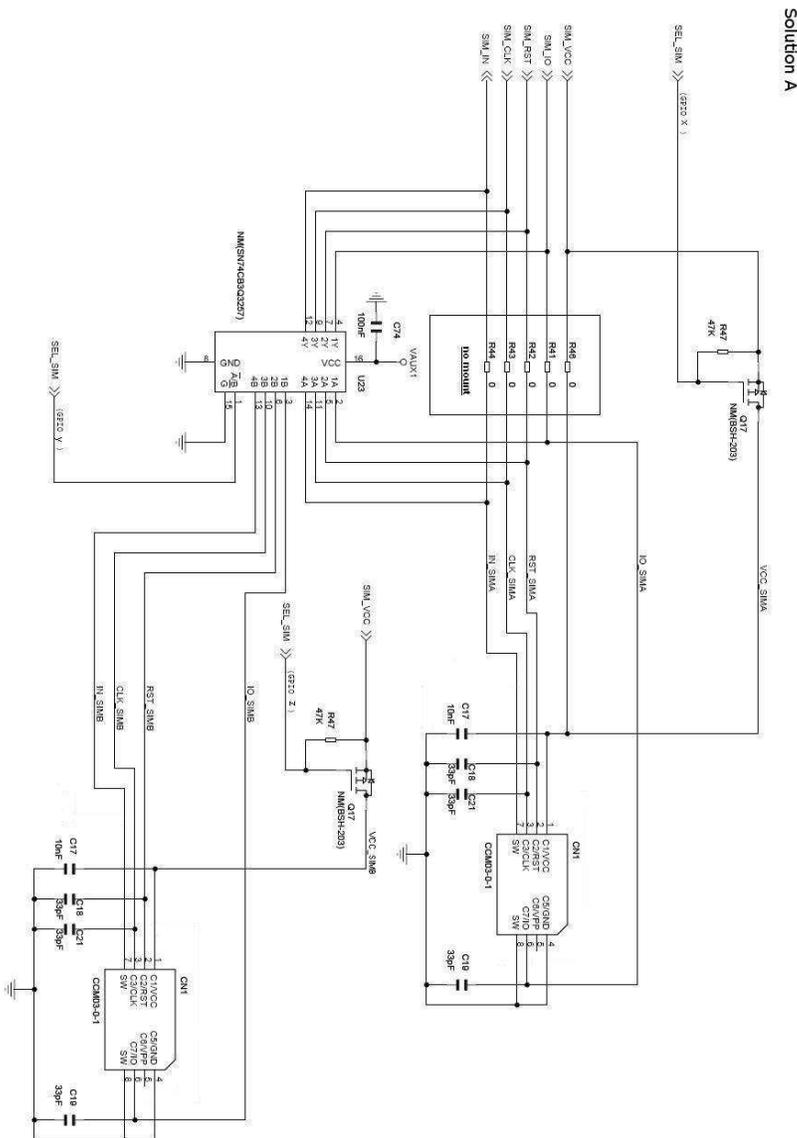
This solution cannot be applied to **GM862 and GC864 with SIM holder** when the internal SIM holder is used.



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3 Schematics



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Document Change Log

Revision	Date	Changes
Rev0	20/08/08	initial release
Rev1	27/04/09	Added AT#SIMDET selection and solution B
Rev2	18/11/09	Added note about GM862 and GC864 with internal SIM
Rev3	15/09/10	Schematics A & B: SIM pin numeration changed; Vpp not used.

