

GM862-GPS HARDWARE DIFFERENCES DECLARATION

Introduction

We, TELIT Communications S.p.A. declare that the new quad-bands GSM 850/900/1800/1900 terminal equipment type GM862-GPS hardware revision 3, is based on the already tested quad-bands GSM 850/900/1800/1900 terminal equipment type GE864-QUAD hardware revision 1 that should be considered as the 'based model'.

Aim of this document is also that to describe the main hardware differences between the new product GM862-GPS and its based model GE864-QUAD.

List of differences between GE862-GPS HW Rev. 3 and GE864-QUAD Rev. 1

The following main differences between the new GM862-GPS HW Rev.3 and the already tested GE864-QUAD HW Rev. 1 are declared as follows:

Schematic:

Schematic page 1

Added Transistor Q101 (BC857BL3) with resistor R119 (470 ohm) in base controlled by Pin P9 of U101, collector to M15, N14, K13 pin of U101 and Emitter to VANA supply.

Added R114, R115 and R116 for RTC crystal configuration

Changed U101 IC uP PMB7860 V 1.1K (was V 1.1D) mass production code

Schematic page 2

Removed U202 (was AND gate not mounted)

Schematic page 3

Added resistor R309 = 560k ohm from pin 3 Q301 to GND digital pull-down

Added resistor R310 = 47k ohm from VCXOEN (PIN 36 U301) to VINT digital pull-up

Schematic page 4

Added L414= L415=2.2nH low pass filter

Added C414=1pF low pass filter

Added C413=33pF DC-block

Added GSM RF antenna connector MMCX female COAX SMD SO401 (was PCB pad)

Changed L409 = 27nH (was not mounted) ESD-block

Changed R407 = not mounted (was 3.3k ohm) power control setting

Changed U401 PMB6271 V1.1 (was PMB6271 A1) mass production code

Removed C413 (was not mounted) external clock

Schematic page 5

Related to GPS functionality all page 5 of the schematic is added (see technical manual cod. 1vv0300730_MAN_OMOLOG_GM862-GPS_r0). The GPS part doesn't affect the functionality of the GSM part.

Schematic page 6

Added SO601 SIM CARD connector 8 CT SMT

Added SO602 board-to-board 50pin connector

Added C601-C649 filter component for EMI/ESD purposes

Added R601-R635 filter component for EMI/ESD purposes

Added L501-L608 filter component for EMI/ESD purposes

Added Q601-Q603 digital I/O

Other Changes:

The PCB used on GM862-GPS HW Rev 3 is called CS1187B

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