GL865 V4 Shield Rev2 User’s Manual

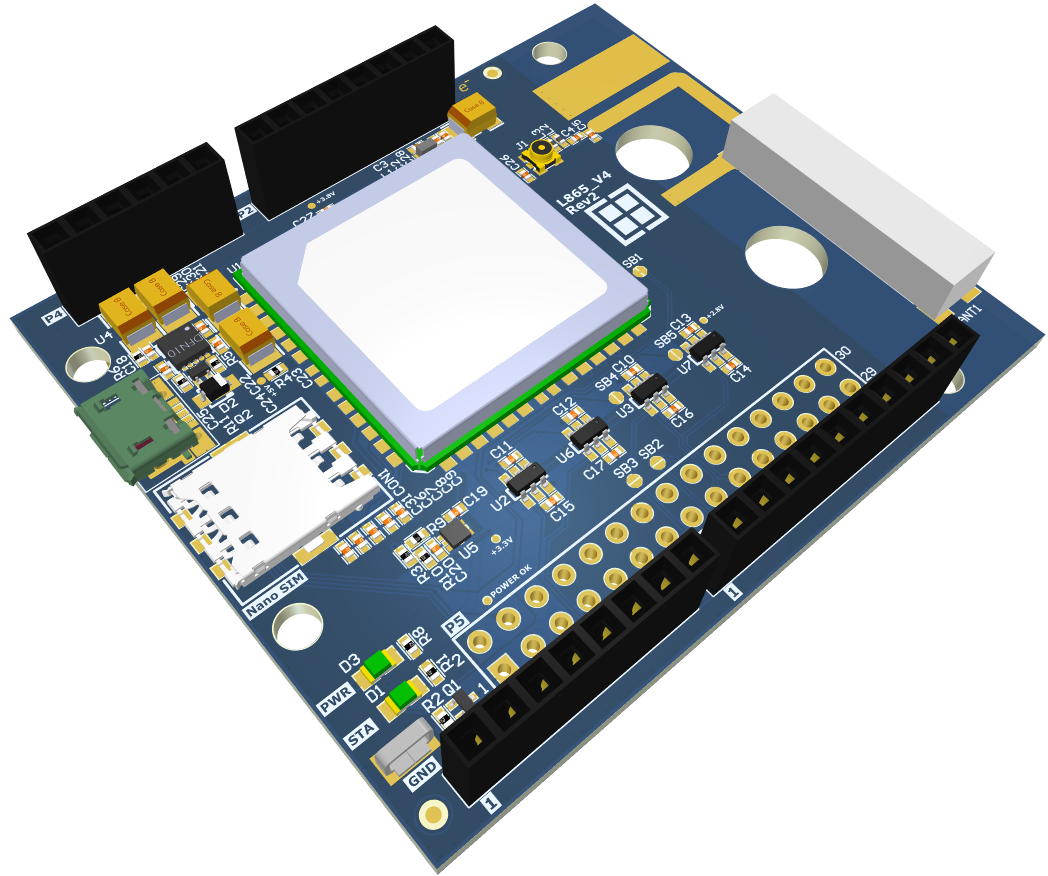


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# Versions

| **Version** | **Date** | **Author** | **Rationale** |
| --- | --- | --- | --- |
| 0.1 | 15 January 2019 | Gintaras Drukteinis | First draft |

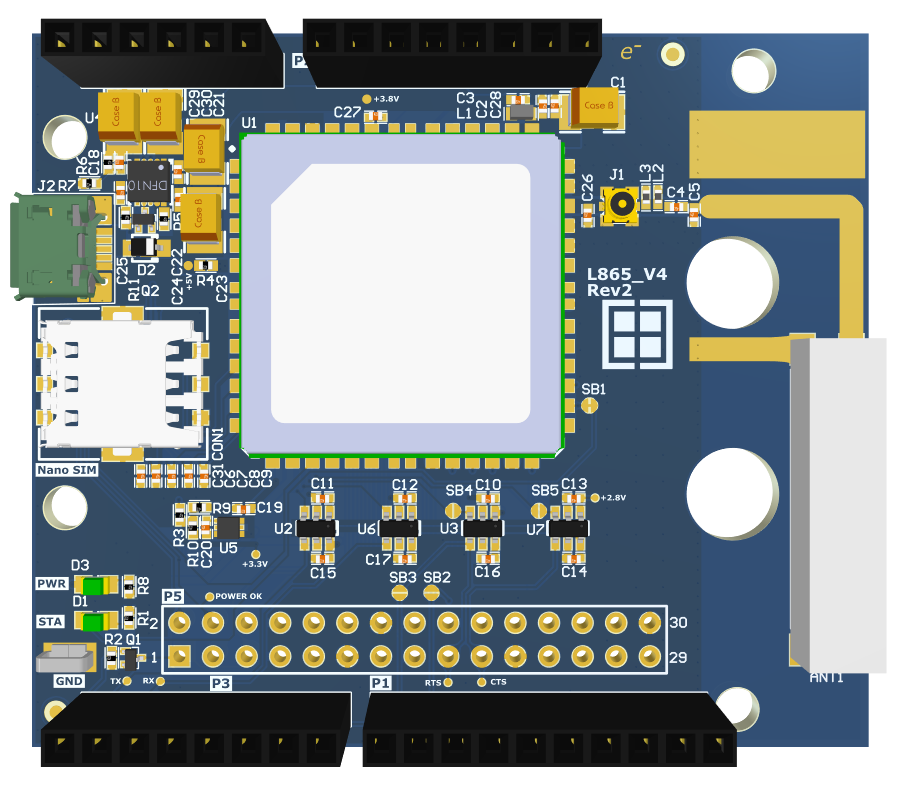
# Introduction

The GL865 V4 Shield is designed by Rutronik for quick start up and evaluation of Telit’s GL865 QUAD V4 cellular modem.

# Features

* Telit GL865 QUAD V4 Cellular Modem
* 2J Quad-Band antenna 2JE04.
* Nano SIM card slot.
* Micro USB connector for power supply.
* ISL80103 LDO 3A.
* ISL9021AIRUNZ LDO 250mA 3.3V.
* Arduino compatible extension connectors.

# Overview



**2JE04 Quad-Band Antenna**

Fig. 1. GL865 V4 Shield Evaluation board’s layout.

**74LVC1T45 Level Translators**

**2 LEDs**

**ISL9021AIRUNZ LDO 3.3V 250mA**

**External antenna connector**

**GL865 QUAD V4**

**(2G Modem)**

**ISL80103 LDO 3A**

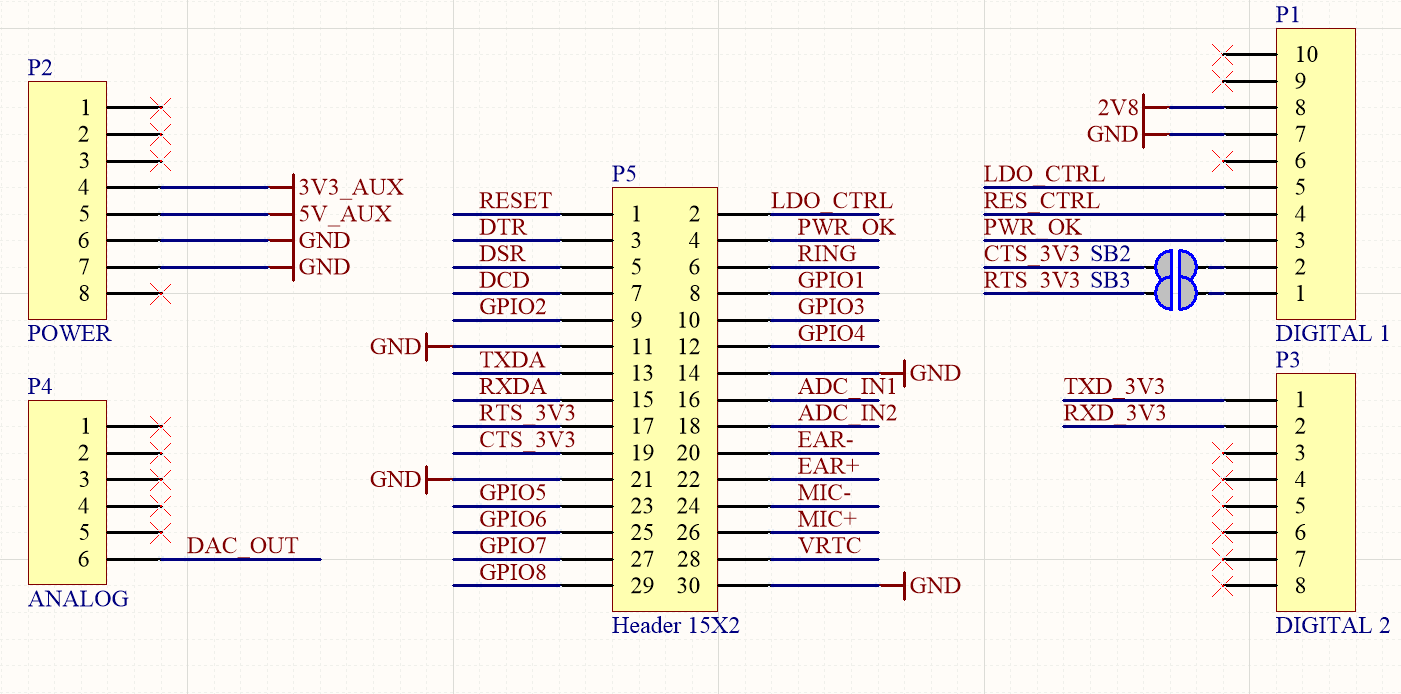
**Micro USB for power supply**

**Nano SIM**

# Schematics

## Pinout

Fig. 2. GL865 V4 Shield Pinout.



## Main Schematic

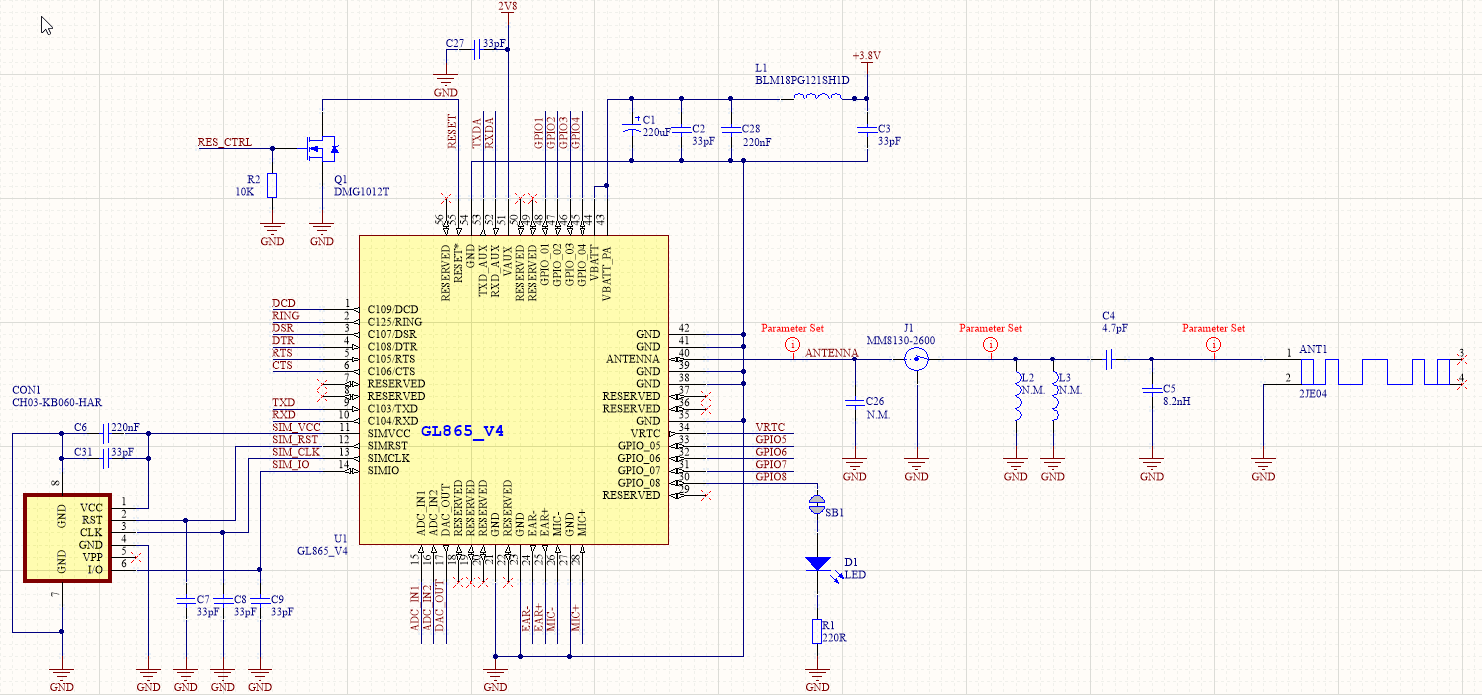
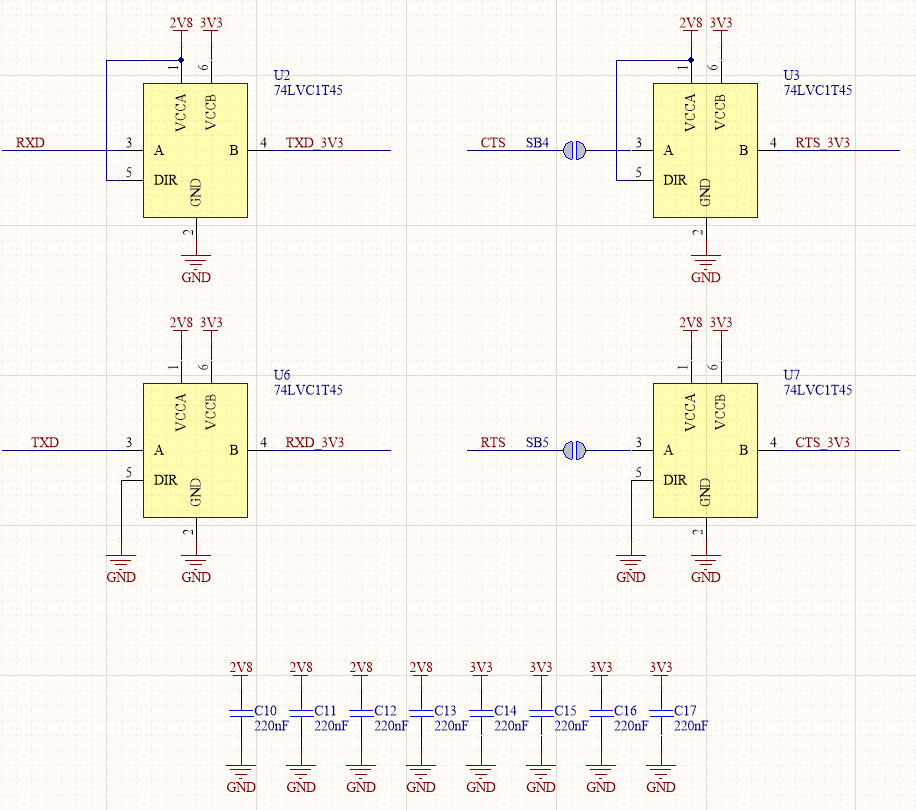


Fig. 3. GL865 V4 Shield Main Schematic.

## Interface

Fig. 4. GL865 V4 Shield Interface Schematic.



## Power management

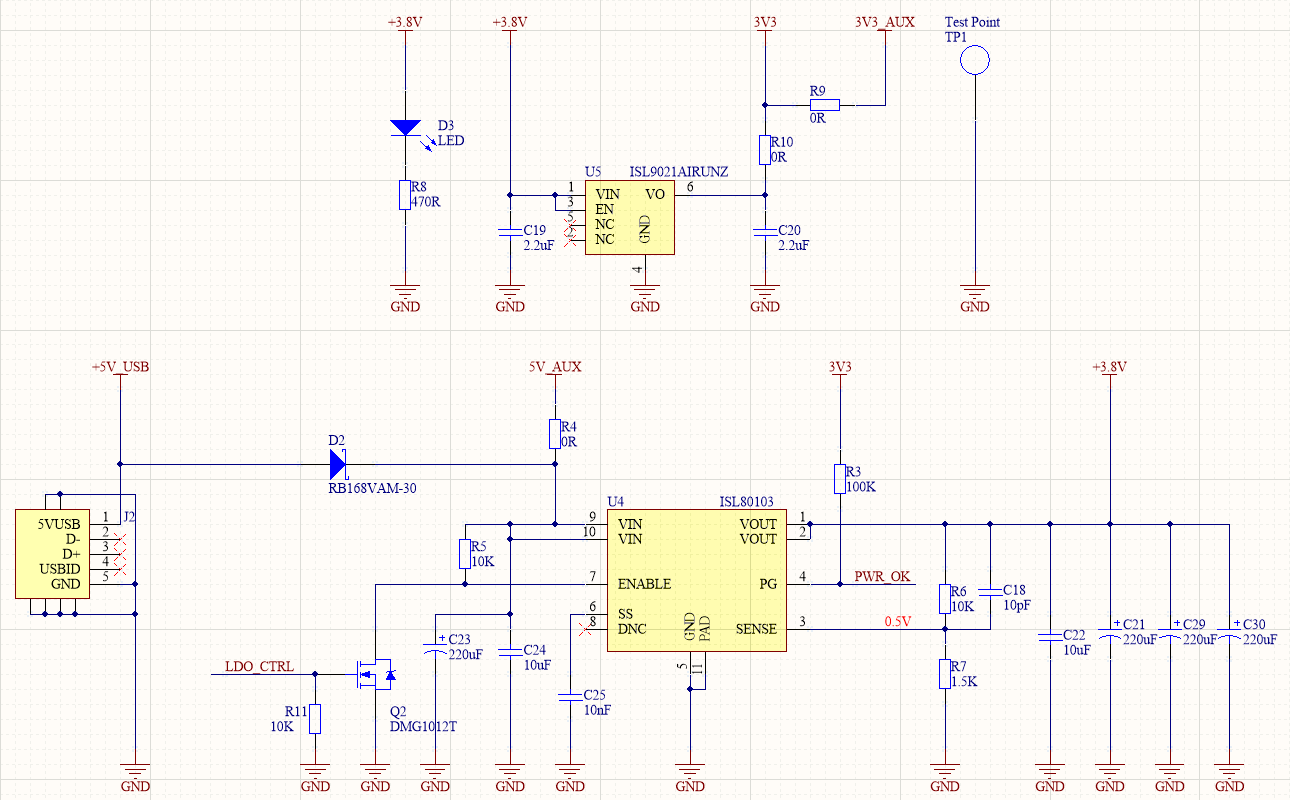


Fig. 5. GL865 V4 Power Management Schematic.

# Code examples

All available code examples for this board could be downloaded from GitHub: <https://github.com/RutronikKaunas>

GL865 V4 Shield code example list:

* Telit IoT Portal uploader example for Renesas Synergy SK-S7G2 starter kit: <https://github.com/RutronikKaunas/gl865v4_sk_s7g2>
* Telit IoT Portal uploader example for ST Nucleo STM32F334R8T6 board: <https://github.com/RutronikKaunas/gl865v4_nucleo_F334R8>
* Telit IoT Portal uploader example for ST Nucleo-64 STM32F401RET6 board: <https://github.com/RutronikKaunas/gl865v4_nucleo_f401>
* Telit IoT Portal uploader example for ST Nucleo-64 STM32L476RG board: <https://github.com/RutronikKaunas/gl865v4_nucleo_l476>

Telit IoT Portal view only account:

User name: rutronik\_lt@rutronik.com

Password: Rutron1k\_user

Fig. 6. Telit IoT Portal Things review

