GL865 V4 Shield Rev2 User's Manual
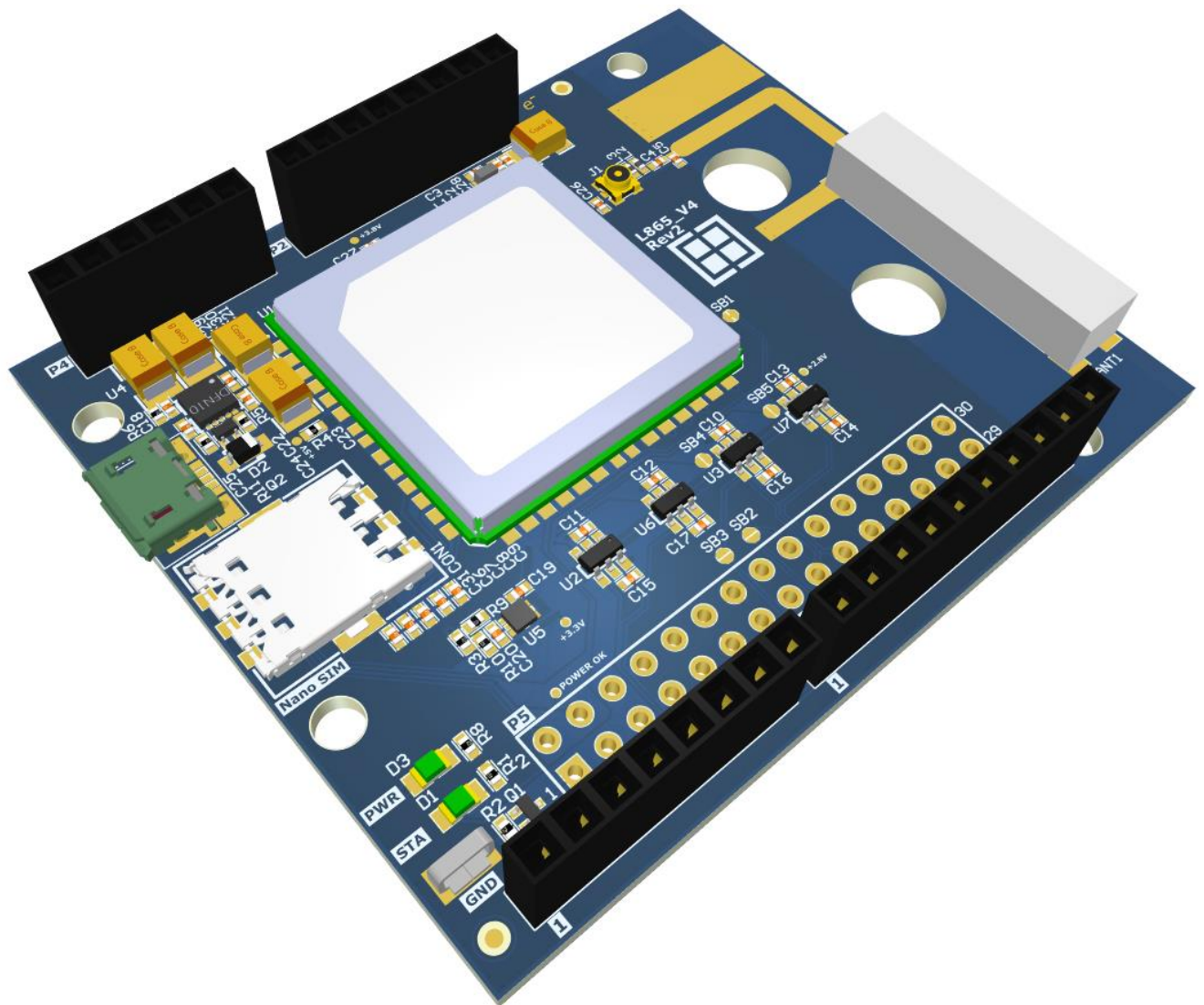
Table of Contents

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.
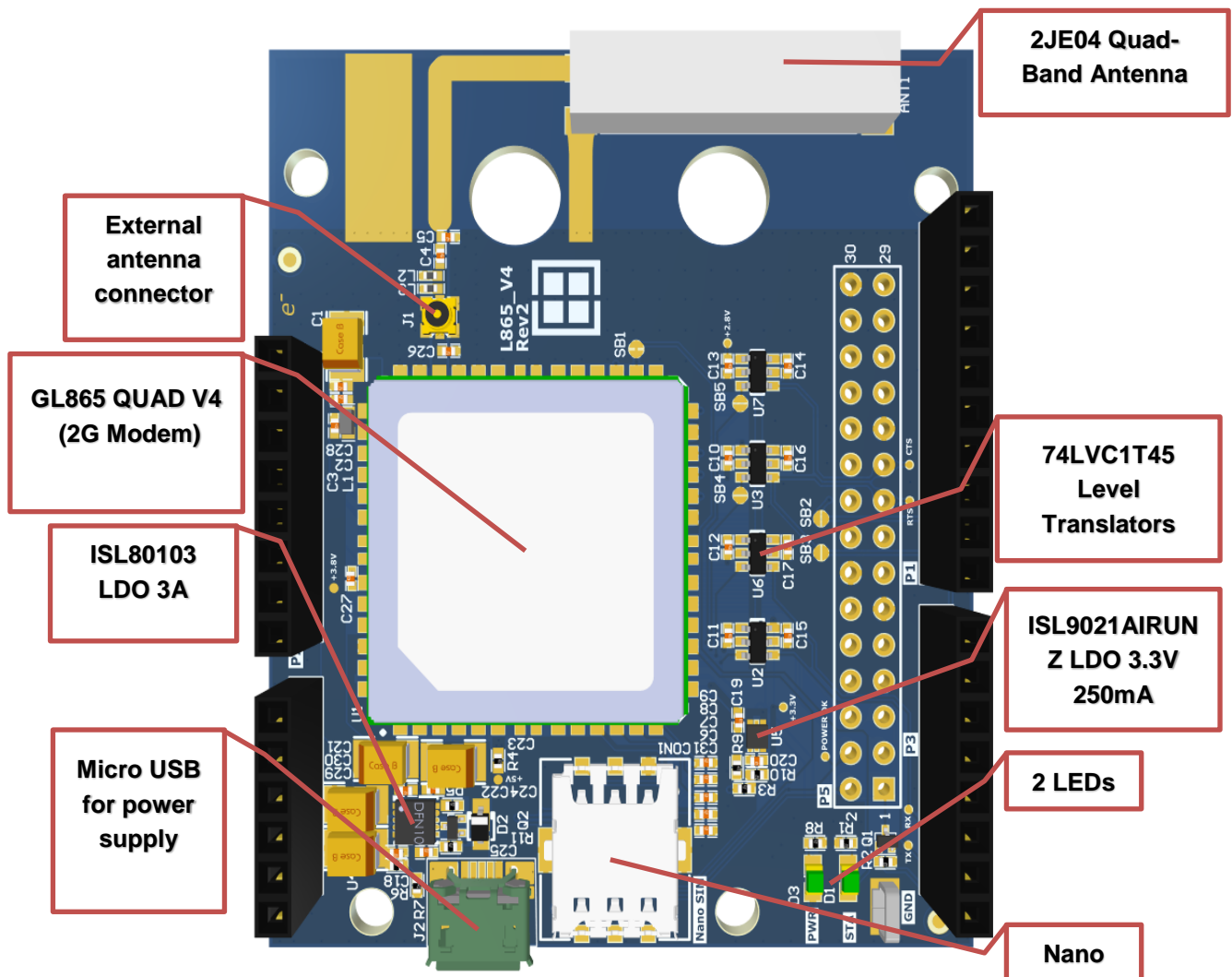- Arduino compatible extension connectors.

Overview

Fig. 1. GL865 V4 Shield Evaluation board's layout.
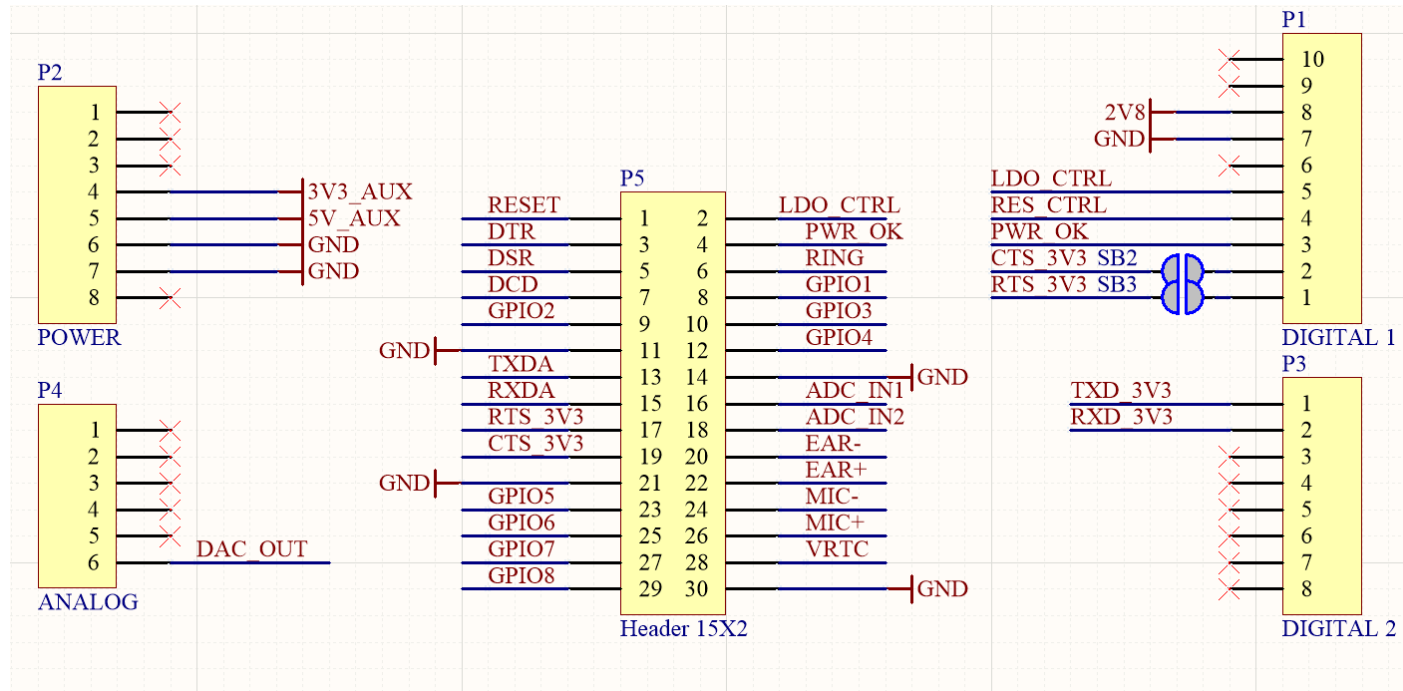
Schematics

Pinout

Fig. 2. GL865 V4 Shield Pinout.
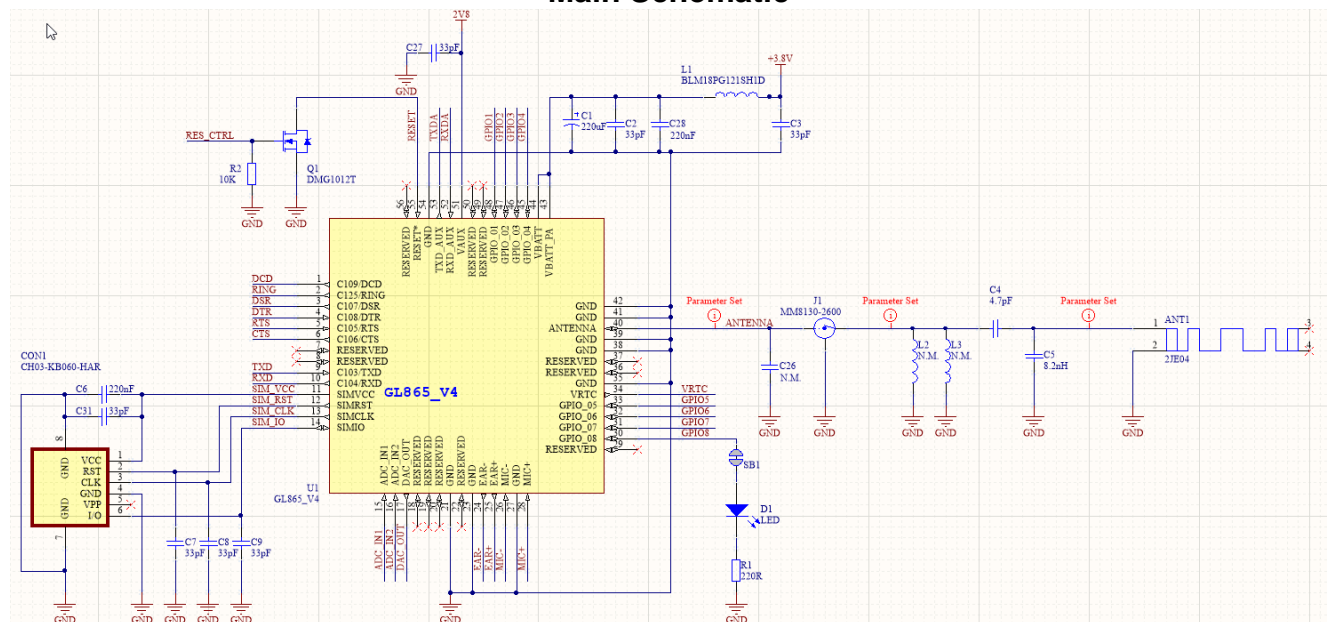
Main Schematic

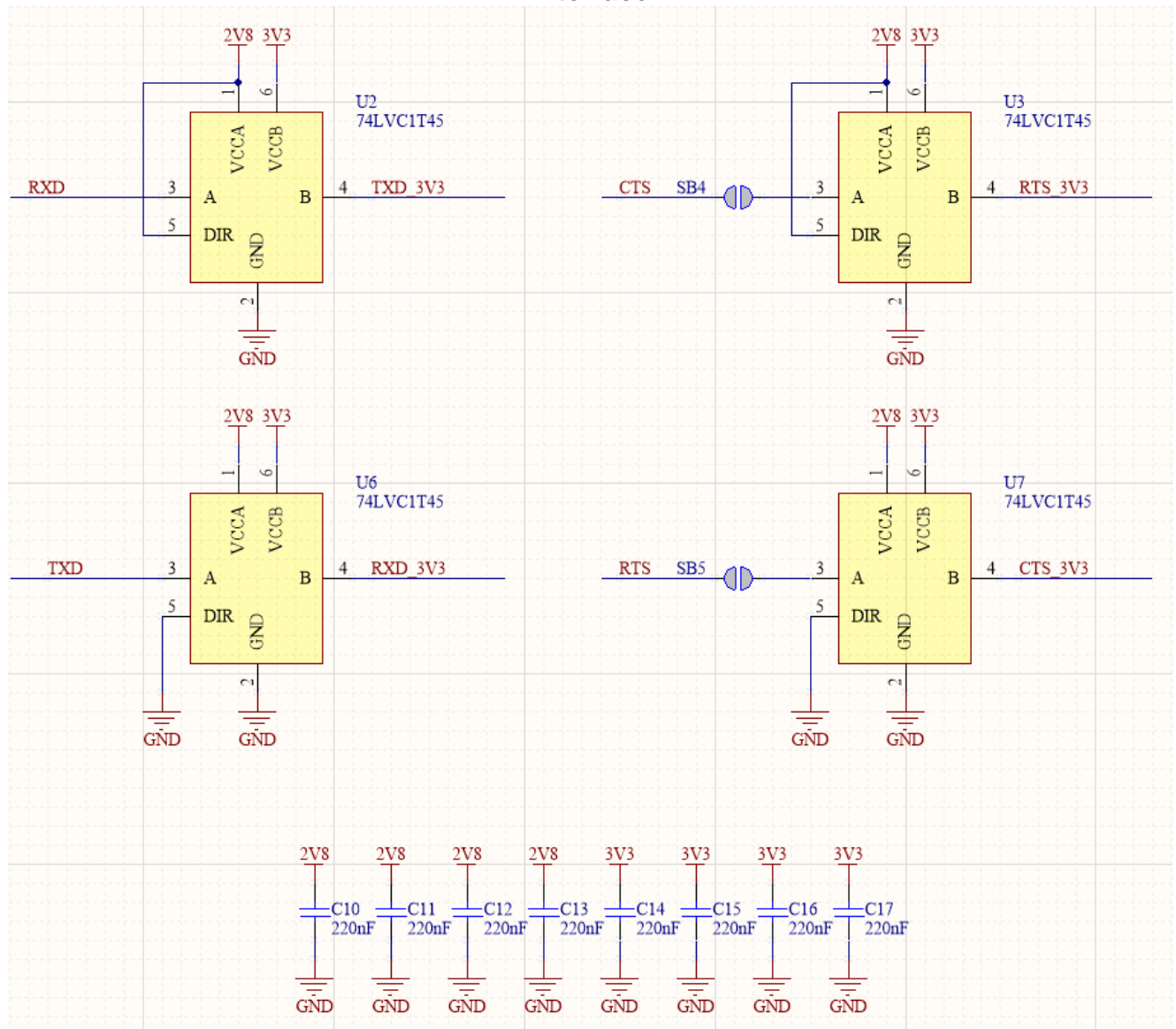Fig. 3. GL865 V4 Shield Main Schematic.

Interface

Fig. 4. GL865 V4 Shield Interface Schematic.

Power management

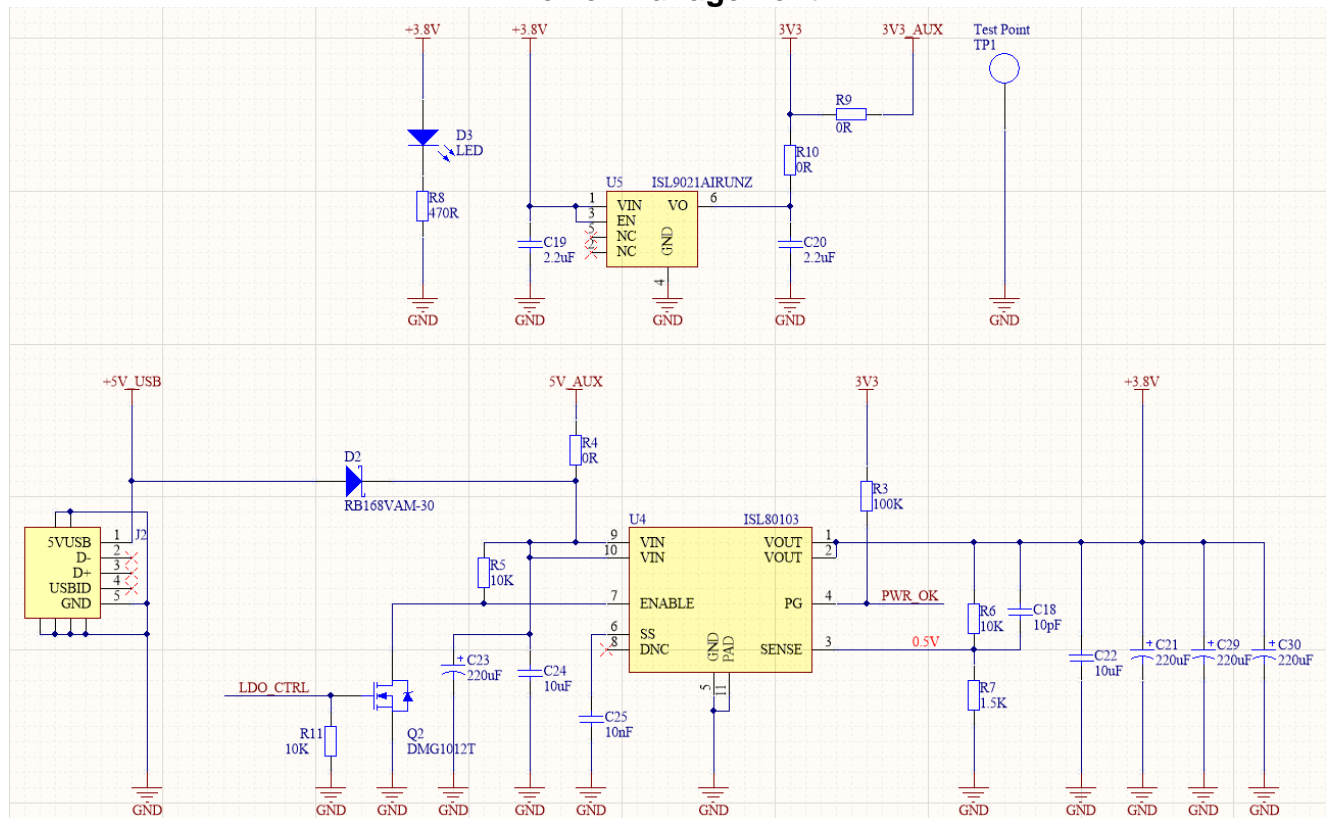*Fig. 5. GL865 V4 Power Management Schematic.*

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

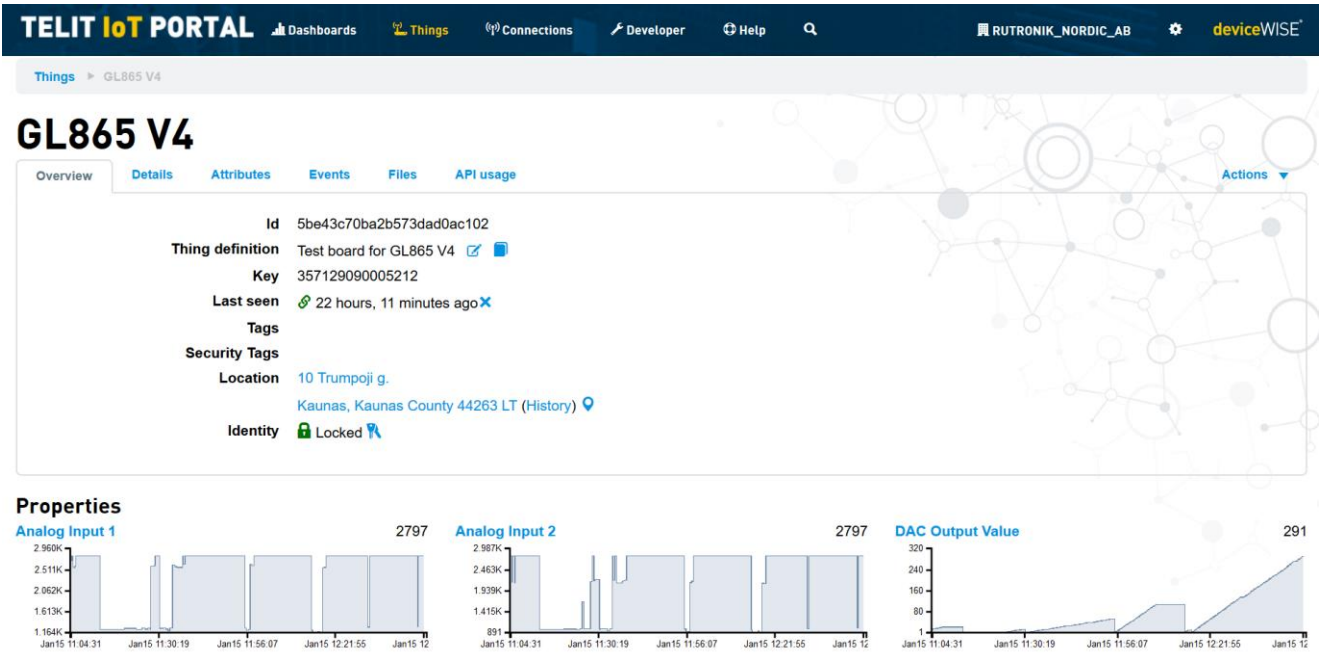Telit IoT Portal view only account:

User name: rutronik_lt@rutronik.com

Password: Rutron1k_user

Fig. 6. Telit IoT Portal Things review