Heron RTK- GPS Xbee Data Link

Datasheet

Version 1.1 Teleron

Copyright©2022

About This Document

This document provides the specifications for the Heron development board module.

Documentation Change Notification

Provides email notifications to keep customers updated on changes to technical documentation. Please subscribe at www.teleron.oguzkagansavunma.com subscribe address.

CONTENTS

1 **Overview**

1.1 Heron RTK- GPS Xbee Data Link Module Specifications

1.2 Heron RTK- GPS Xbee Data Link Module Technical Specifications Table

2 **Heron RTK-GPS Xbee Data Link Module**

1. Overview

1.1 Heron RTK- GPS Xbee Data Link Module Specifications

XBee wireless communication module has XBee DigiMesh (802.15.4) firmware. It allows you to establish a smooth and stable connection to microcontrollers, computers and almost any device with serial ports. It supports point-to-point or multi-point communication modes.

To use Series 1 modules, you do not need to configure them. Since this product is a Pro model, it has higher output power than standard modules. It also provides secure communication.

1.2 Heron RTK- GPS Xbee Data Link Module

Technical Specifications Table

- 3.3V @ 250mA
- 250kbps maximum data rate
- 63mW RF output power (+17dBm)
- 1.6 km range
- Cable antenna
- FCC certified
- 10-bit ADC input pins (6 pcs)
- Digital I/O pin (13 pieces)
- 128-bit encryption
- Wired or wireless configuration possibility
- AT or API instruction set support

2. Heron RTK- GPS Xbee Data Link Module

Gnss and MPU data can be packed with Esp32 microcontroller and you can communicate with Xbee data link module over UART at distances up to 3 km without data loss.

To use this module, the switch on the main module must be in RF mode

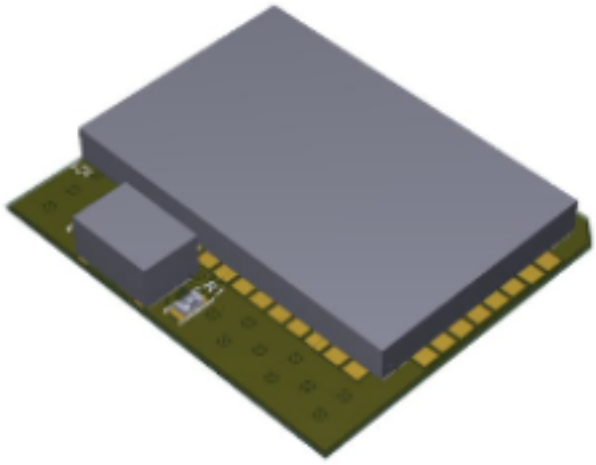

Figure 1: Heron RTK-GPS Xbee Data Link Module