

## Background

The ROAMMk3MOD1 radio module is intended for installation in wireless streetlight controls applications. The module is supplied regulated 3.3Vdc by a ROAM/SSG custom host board with +/-1% regulated supply in all applications. The module contains filtering capacitors onboard to smooth variations in supply voltage.

The module assembly is also known as ROAM part numbers; 701-00041-001 (2dBi PIFA permanently connected antenna) and 701-00041-002 (SMA connected 5dBi whip antenna). Each variant is physically and electrically identical except for the antenna implementation.

## Modem User's Manual (not accessible to end-users).

### 1. Overview of the Radio Modem Hardware

The ROAMMk3MOD1 modem is an 802.15.4 wireless module that allows wireless communication using a standard asynchronous serial data stream. The main features of the ROAMMk3MOD1 radio modem are presented in the figures below. FCC ID label will be applied to the shield at a later date.

701-00041-002 Variant

