

Exhibit 3 – Experimental LoRa Radio Information

On July 27, 2017, the Office of Engineering and Technology requested Carnegie Mellon University (“CMU”) “submit a detailed exhibit that describes your request for the new experimental radio devices.” Exhibit 3 contains such information.

Attached are images of front and back sides of the prototype device. Areas related to the experimental radios are marked. They are respectively: a Semtech SX1276 Radio and corresponding reference design circuitry; and two 915 MHz chip antennas. The SX1276 is a standard chip found in other FCC-certified LoRa-based radios that operate in the 902-928 MHz band. CMU intends to test the same LoRa-based modulation and protocols in white space bands. After completing development and testing stages for the board, CMU plans to go through the FCC Equipment Certification process for this radio.

