

**Federal Communications Commission
 Authorization and Evaluation Division**

Date: August 5th, 2022

Subject: Product Family Description Regarding Class II Permissive Change Request for FCC ID:
 2ALEPT0006338

To Whom It May Concern:

The Comfort and Vivid, formerly known as Smart Room Sensor Base and PIR, respectively, are LoRa sensors for IoT applications. Each sensor can support multiple RF regions, including North America.

The Comfort and Vivid are functional variants in the same sensor family. The Comfort variant has product code T0006115 and the Vivid variant has product code T0006116.

The Comfort and Vivid variants do not differ in RF circuitry, but only differ in their transducers. The digital/analog input transducer is exclusive to the Comfort variant, while the PIR human motion detector is exclusive to the Vivid variant. These differences have been shown in the following table:

Sensing Function	Sensor Variant	
	Comfort	Vivid
Ambient Temperature	✓	✓
Ambient Relative Humidity	✓	✓
MCU Temperature	✓	✓
Ambient Light	✓	✓
Accelerometer	✓	✓
PIR (Human Motion Detector)		✓
Hall Effect	✓	✓
External Connector (Digital Input) / Remote Temperature Sense (Analog Input)	✓	

The PIR human motion detector is exclusive to the Vivid, and consists of a PIR element and supporting circuitry that signals the microcontroller when human motion is detected within the PIR element field of view. The Comfort features a 2-pin external connector that can be configured as a digital or analog input. In digital mode, it can detect closed and open connections. In analog mode, it can be connected to a thermistor for remote temperature sensing.

Sincerely,



Tom Danshin,
 Manager, System Design
 TEKTELIC Communications Inc.