

Elpas Solutions Ltd.

FCC ID: O4X5-PBB00433
IC:1467G-5PBB00433

Operational description

The Elpas Personnel Identity Badge is a supervised triple-tech, 2-way, active RFID tag that provides wireless real-time monitoring and tracking of workers that may be at-risk of workplace related attacks or injuries. It contains a GFSK modulated RF transceiver operated at 433.42 MHz, which is activated by two duress pushbuttons at the back of the badge and 125 kHz receiver.

The EUT is powered by 3V internal battery, type CR2450 Lithium.

The EUT has 10 model numbers. All EUT models have the same housing, PCB, RF GFSK (175 kbit/s) modulated transceiver (433.42 MHz Tx/Rx). Some variants PCB are also populated with the components of LF receiver (125 kHz) as described below:

- the EUT model 5-PBB00433-7 comprises the 433.42 MHz transceiver (GFSK modulation. It does not have an IR receiver and LF receiver (125 kHz);
- the EUT models 5-PBB00433-3 and 5-PBB00433-G are the same as 5-PBB00433-7 with different firmware;
- the EUT model 5-PBB00433-1 comprises the 433.42 MHz transceiver (GFSK modulation and LF receiver (125 kHz). It does not have an IR receiver;
- the EUT models 5-PBB00433-E, 5-PBB00433-K and 5-PBB01433-E are the same as 5-PBB00433-1 with different firmware;
- the EUT model 5-PBB00433 comprises the 433.42 MHz transceiver (GFSK modulation, LF receiver (125 kHz) and an IR receiver;
- the EUT model 5-PBB00433-5 is the same as 5-PBB00433 with different firmware;
- the EUT model 5-PBB00433-2 comprises the 433.42 MHz transceiver (GFSK modulation, LF receiver (125 kHz) and an IR receiver. It is also equipped with a proximity tag (i.e. twice 125 kHz).

Product Matrix

Part Number	RF (433 MHz)	RF Reception	IR (800nm)	LF (Reception 125KHz)
5-PBB00433	Yes	Yes	Yes	Yes
5-PBB00433-1	Yes	Yes	No	Yes
5-PBB00433-2	Yes	Yes	Yes	Yes
5-PBB00433-3	Yes	Yes	No	No
5-PBB00433-5	Yes	Yes	Yes	Yes
5-PBB00433-7	Yes	Yes	No	No
5-PBB00433-E	Yes	Yes	Yes	Yes
5-PBB00433-G	Yes	Yes	Yes	Yes
5-PBB00433-K	Yes	Yes	Yes	Yes
5-PBB01433-E	Yes	Yes	Yes	Yes