

FCCID: OM4TLV-MA-US

Operational Description

1.1 Product description

EUT is a transceiver designed to be the keypad of a voting system.

The voting pad is composed of the following elements:

- A plastic container with antenna cover containing:
- an electronic card with logic, transmit and receive section (transceiver) and TX/RX antenna mounted (welded on PCB)
- battery
- keyboard with 10 numeric keys (0-9) and 2 function keys
- 1 green led and 3 red led

Each keyboard have an identifying number from 1 to 16.383, divided in 32 block of 512.

1.1.1 Operational description

A command, sent by slaves antennas to all the pads present in the area, open the voting. After this moment, the pad owners are allowed, by pressing a key, to record their choice into an internal memory of the voting pad.

When a proper command is received from the slave antennas (FCC IC:OM4SLV-MA-US) the voting pads, pertaining to the requested block, send, one after the other, the data of the recorded choice to the slave antennas, which are, at the moment, switched in receiving mode.

The data are sent by air (radio TX mode) on the frequency of 916.50 MHz.

When collected, the data of the first block, are sent, from the slave antennas to the Master unit (MST-MA-US), by cable on a RS 485 line, and from the Master Unit to the PC, through the RS232 port for their processing and displaying.

Immediately, the system will poll the further blocks present in the area.

1.1.2 Modulation upon the carrier:

- only one frequency is used: 916,50 MHz
- modulation type: AFK
- data rate max: 56 Kbps