

Gojo Industires IMS User Manual

Manualsum, simplified manuals

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FCC id: [O76-X7HG2400A](#)

User Manual and Basic Theory of Operation

Product Name: ES10 Communications Module

Model Number: ES10

The ES10 communications module is a piece of hardware that provides connectivity and additional functionality to the ES10 Pump assembly (Dispenser). The ES10 Module is responsible for:

- Communicating (Relaying) all the dispenser data to the gateway (Telemetry, Properties and Events)
- Detecting and communicating the ID of the badged individual triggering a dispense

This module mates with the ES10 Integrated Pump Assembly (IPA) to produce the optical alignment necessary to communicate with it via Infra-Red. See Figures 1, 2 below.

General Requirements

- The ES10 Communications module is not a stand-alone module. It requires an ES10 Sanitizer or Soap dispenser to fulfill its purpose.
- The ES10 Communications module is not a wearable or portable device.
- Under general use-case conditions, users are expected to be standing at about 2 to 3 ft. of distance from the ES10 Module. This is the average separation between the body of the user and a dispenser unit as a sanitizing event is triggered.

Telemetry Schedule and Events

The ES10 module will transmit data after:

- Adispensing is triggered
- Any status change - Open/Close of enclosure or change of sanitizer refill
- Any configuration change.
- No dispensing, status or configuration change has occurred — timeout set to 15 minutes.

Communications Module Technical Data

- Batteries: AAx4
 - Nominal Voltage: 6V
 - **Communication Interfaces in the ES10 Module:**
1. Integrated Pump Assembly (IPA) to Comms. Module: Infra-Red — IR (Inbound)
 2. Comms. Module to Gateway: BLE (Outbound)
 3. Comms. Badge to Module: BLE (Inbound)

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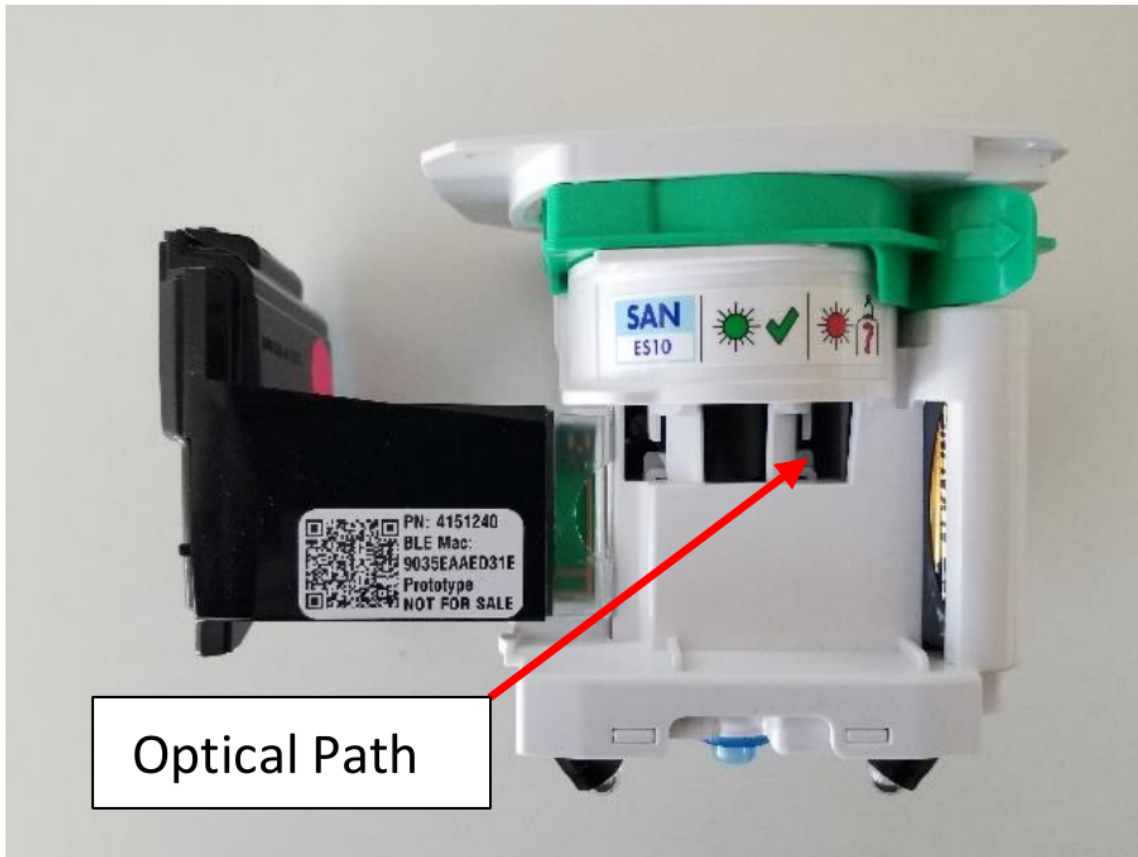


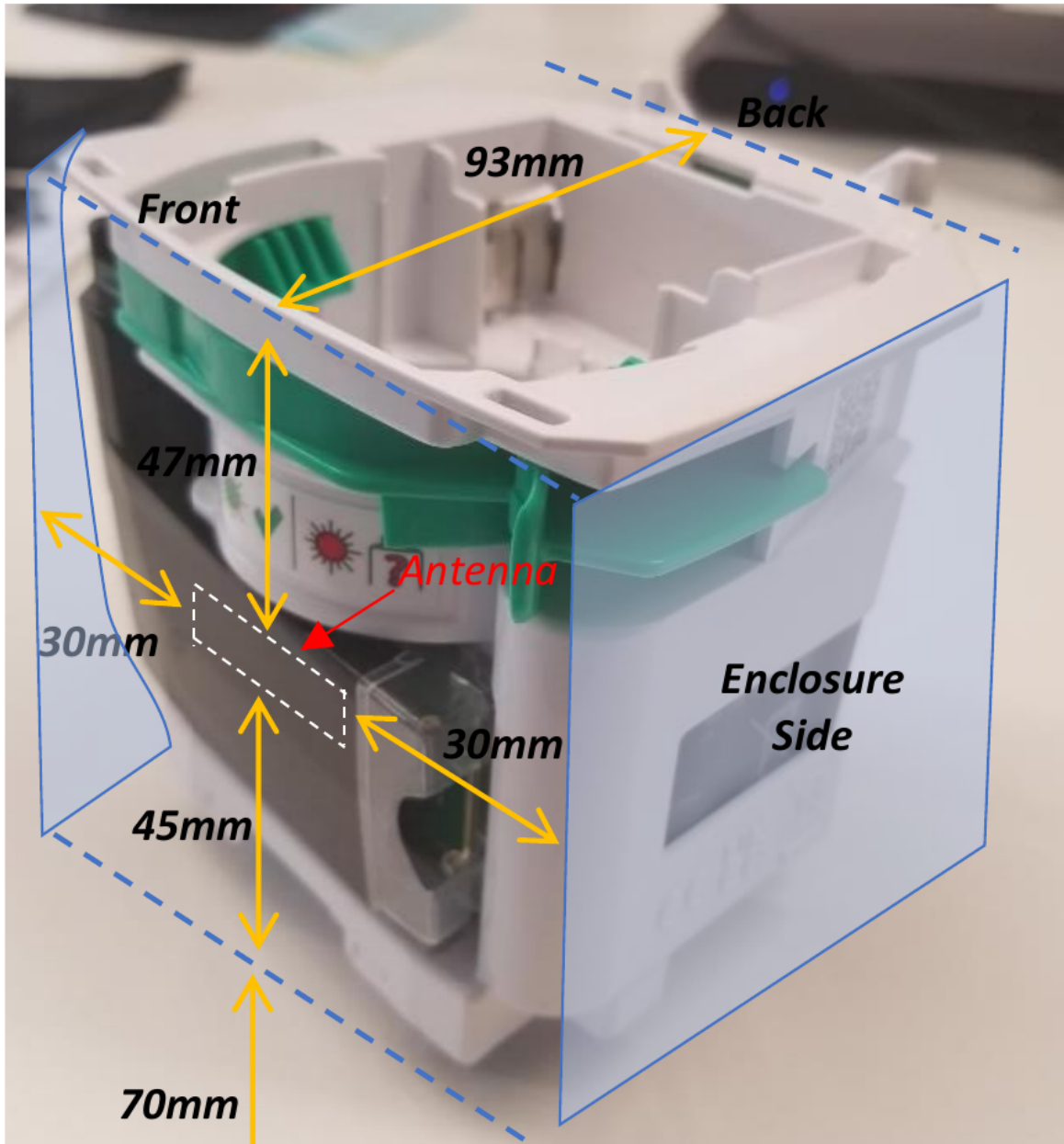
Figure 1 - ES10 Communications Module (left) and IPA (Right)



Figure 2 - ES10 IPA-Communications Module Assembly

Location of the Antenna within the Dispenser

Note: The dimensions are approximately.



Internal Positioning of the Antenna

The image below shows the positioning of the U.FL antenna as seen from the back of the ES10 comms. Module.

