

FCL Components Wireless Modules

Wirepas Mesh Tag Unit

FWM8BLZ14T

Overview

Mesh unit (tag) featuring build-in Wirepas Mesh 2.4GHz network connectivity for IoT applications using it together with FCL Components' IoT connectivity Anchors, Sensors nodes, or USB dongle products.

Features

- Create an autonomous/high-density and secure mesh network**
 It has ability to construct a large scale, high-density network under autonomous network rerouting, even if the network environment changes or device fails. Security key provides secure operating environment throughout the mesh network.
- Design for medical facilities and other environments**
 White color is suitable for hospitals, offices, and schools. The rounded body housing may prevent injury during cleaning the unit.
 Thickness is only 5.8mm allowing easy placement between stacked equipment.
- Ingress Protection**
 IP67 rating protects the unit from water and particles ingress (e.g. medicines or stains) and allows it to be washed down and the battery can also be replaced by customers. (Patent pending)
- Flexible mounting style**
 2 screw holes for mounting. Optional bracket is available to attach the unit. If screws are not used, it is possible to seal the holes with fitted white or colored plug(s) for identification purposes.

Applications

Asset tracking in hospitals, offices, warehouses, factories, etc.

■ Specifications

Item	Specification
Type	Mesh unit (Tag)
Part number	FWM8BLZ14T
Mesh technology	Wirepas Mesh 2.4GHz
Transmit power	+4dBm max.
Antenna	Embedded (pattern antenna)
IC	Nordic Semiconductor nRF52832
Carrier frequency / Channel	2,400MHz to 2,483.5MHz / 40 channels (2 MHz spacing)
Modulation / Symbol rate	GFSK / 1 Mbps
Power supply	Coin cell lithium battery CR3032 (not included, factory installation optional)
Operating temperature/ humidity	-30°C to +70°C / 20 to 80% RH
Ingress Protection Rating	IP67
Dimensions / weight	52.8 x 35.9 x 5.8 mm / Approx. 7.5 gr (excluding battery)
Certifications (planned)	Radio Act Japan, FCC, ISED, CE, UKCA

RoHS compliant



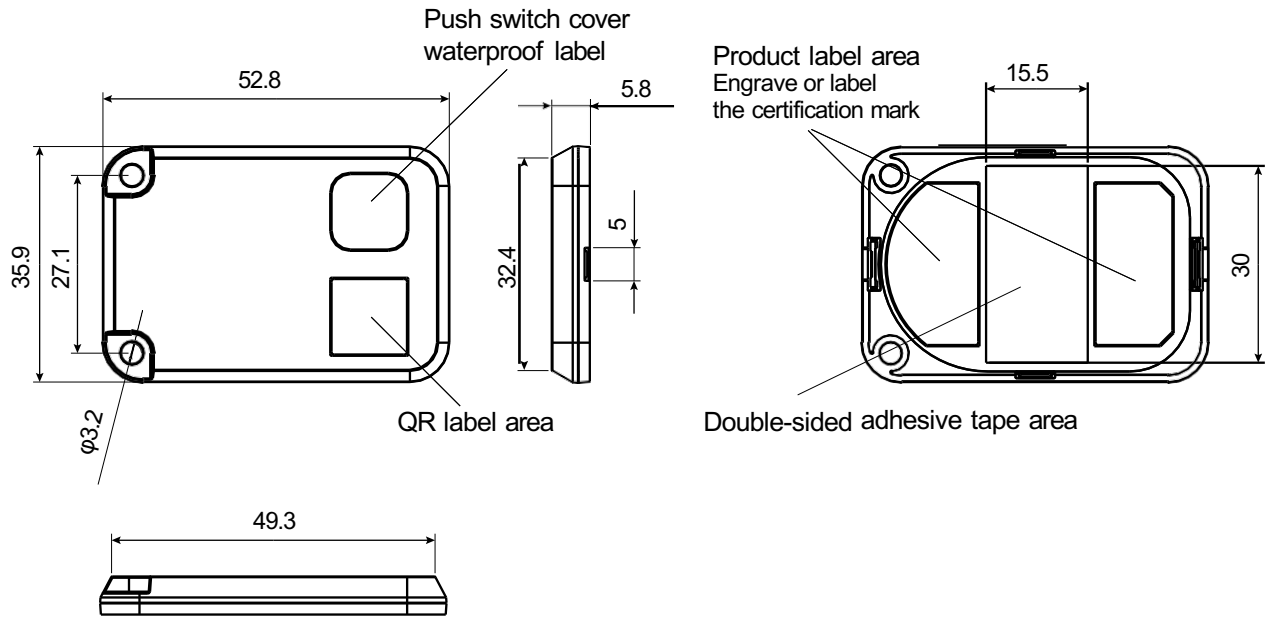
FWM8BLZ14T



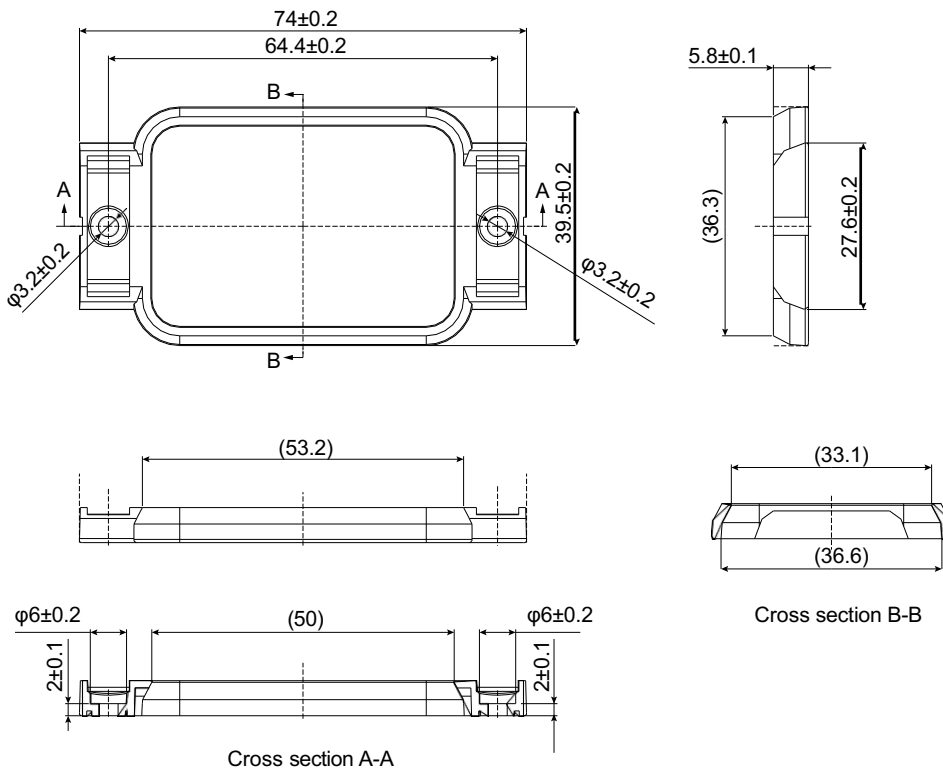
FWM8BLZ14T with bracket

■ Dimensions

FWM8BLZ14T

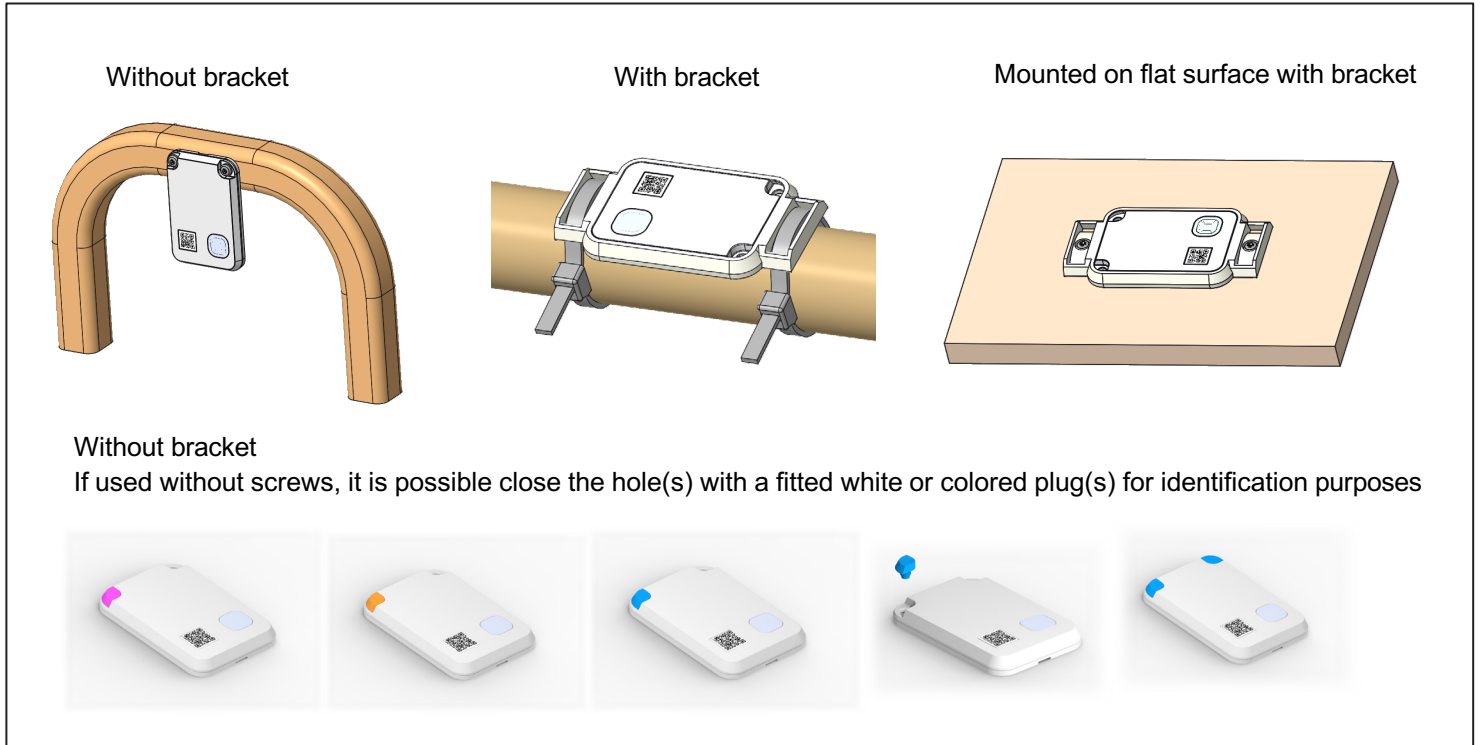


Bracket



Unit: mm

■ Mounting options



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