

# FCL Components Wireless Modules

# Wirepas Mesh Tag Unit FWM8BLZ14T

#### Overview

Mesh unit (tag) featuring build-in Wirepas Mesh 2.4 GHz 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.

#### RoHS compliant



FWM8BLZ14T

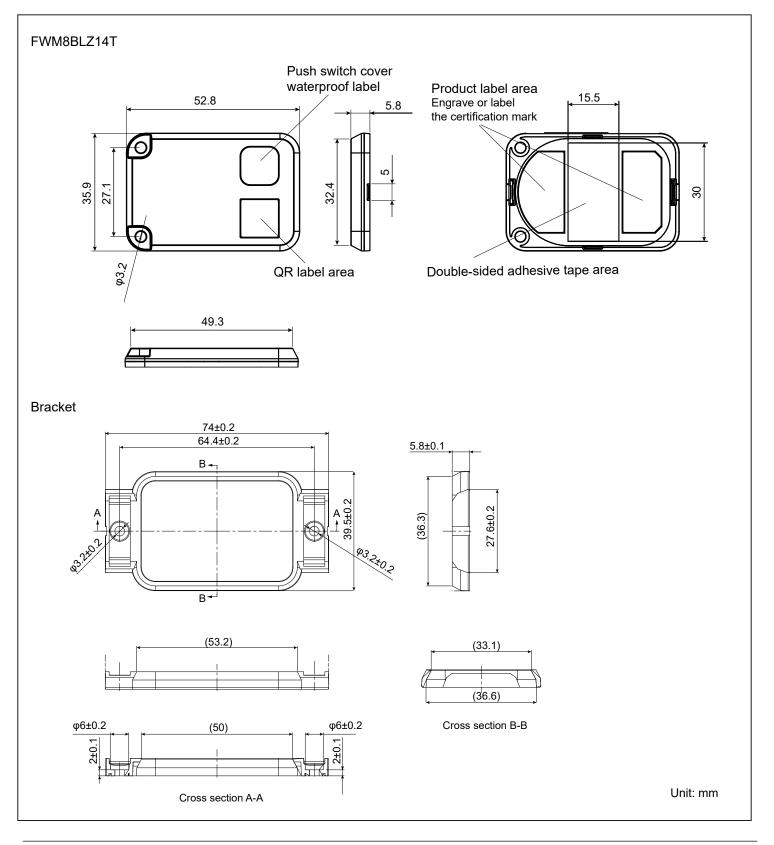


FWM8BLZ14T with bracket

# Specifications

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Item	Specification
Туре	Mesh unit (Tag)
Part number	FWM8BLZ14T
Mesh technology	Wirepas Mesh 2.4 GHz
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
Operating temperature/ humidity	-30°C to +70°C / 20 to 80% RH
Ingress Protecion Rating	IP67
Dimensions / weight	52.8 x 35.9 x 5.8 mm / Approx. 15 g (including battery)
Certifications (planned)	Radio Act Japan, FCC, ISED, CE, UKCA, RCM, RSM

# Dimensions

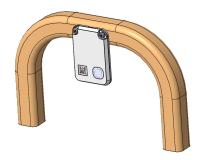


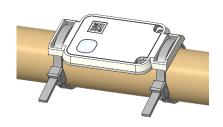
# Mounting options

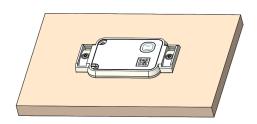
# Without bracket

#### With bracket

# Mounted on flat surface with bracket







#### Without bracket

If used without screws, it is possible to close the hole(s) with a fitted white or colored plug(s) for identification purposes











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