

FUJITSU Component Wireless USB Dongle

FWM8BLZ09P / FWM8BLZ09T / FWM8BLZ08S

Overview

Endurance line of wireless Mesh USB dongles featuring built-in Wirepas Massive IoT wireless network connectivity.

Features

- Easily add Wirepas Massive wireless mesh connectivity to gateway or equipment via USB port.
- 3 Types of USB dongles:
- FWM8BLZ09P: Make any equipment with an USB port works as a Wirepas Anchor to mesh wirelessly with other Wirepas ready IoT devices. E.g. connect it to an USB port of a printer, it becomes an IoT anchor. You can then manage its location and mesh the printer with other converted IoT devices.
- **FWM8BLZ09T:** Make any equipment with an USB port works as a Tag to manage its indoor location, through the Wirepas network. E.g. connect it to an USB port of a PC laptop, it works as a tag to manage its indoor location.
- FWM8BLZ09S: By inserting this USB dongle to an existing gateway and incorporating Wirepas Gateway software, you can easily add "Wirepas ready" IoT devices to your Wirepas wireless mesh network.
- Powered via USB type A port
- Small size: 17.5 x 14.2 x 6.6 mm.
 Minimum protrusion from gateway or equipement with USB port
- LED indicator: LED lights turn on when power is turned on, which allows to visually check the state of operation
- Operation settings can be changed easily: Parameters such as NODE_ROLE (HEAD_NODE/SUB_NODE) setting or Bluetooth Low Energy advertise setting FWM8BLZ09P/T: Settings can be changed via command AppCongig or Remote API (wirelessly) FWM8BLZ09S: Settings can be changed via USB (virtual UART) or Remote

API (wirelessly)

Applications

Wirepas network repeater, indoor asset tracking, sensor network, etc...



RoHS compliant



Available Software (License agreement is required)

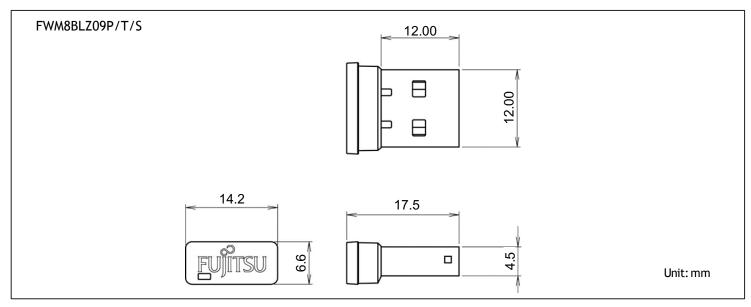
- WNT: Wirepas Network Tool A highly scalable tool for monitoring and analyzing Mesh operation. It provides visibility of individual node behavior and visualization of the logical topology of Mesh.
- WPE: Wirepas Positioning Engine
 It provides calculated end-node location
 coordination from the fixed Anchor nodes
 locations. It is capable to provide a
 geographically tagged view on the map or
 area layout image (e.g. office or warehouse).
- Wirepas API

Provides host CPU API for controlling the Wirepas Mesh Module.

Specifications

Item	Specifications		
Туре	USB Dongle (Anchor)	USB Dongle (Tag)	USB Dongle (Sink)
Part number	FWM8BLZ09P	FWM8BLZ09T	FWM8BLZ09S
Mesh technology	Wirepas Massive		
Transmit power	+8dBm max.		
Host interface	USB type -A (power supply only)		USB type-A, v2.0
Antenna	Embedded		
IC	Nordic Semiconductor nRF52833-CJAA		
Carrier frequency	2,400MHz to 2,483.5MHz		
Modulation	GFSK		
Symbol rate	1 Mbps		
Modulation index	0.5		
Number of channels	27 channels		
Channel spacing	3MHz		
Operating temperature/ humidity	-30°C to +60°C / +20 to +80% RH (no frost)		
Dimensions / weight	17.5 x 14.2 x 6.6 mm / approx. 2g		
Certifications	Radio Act Japan, FCC, ISED, CE, RCM, RSM		

Dimensions



Contact

Japan FUJITSU COMPONENT LIMITED Shinagawa Seaside Park Tower 12-4, Higashi-shinagawa 4-chome, Tokyo 140 0002, Japan Tel: (81-3) 3450-1682 Fax: (81-3) 3474-2385

Email: fcl-contact@cs.jp.fujitsu.com
Web: www.fcl.fujitsu.com/products/wireless-modules/

Australia & New Zealand Symbiotech

696 Bourke st, Melbourne NSW 3000 20 Poplar St, Sydney NSW 2010 Email: gday@symbiotech.com.au Web: www.symbiotech.com/fujitsu



Copyright

All trademarks or registered trademarks are the property of their respective owners. Fujitsu Components or its affiliates do not warrant that the content of datasheet is error free. In a continuing effort to improve our products Fujitsu Components or its affiliates reserve the right to change specifications/ datasheets without prior notice. Copyright ©2021 Fujitsu Components All rights reserved. Revised Sept 3, 2021.