

FEATURES

- 2,4GHz Multi-Protocol USB Transceiver
- Zigbee/BLE/Thread/Proprietary
- Private Label
- Custom Firmware upload
- Silabs EFR32MG21 Wireless SoC
- Over-The-Wire (OTW) update support
- USB v2.0 full-speed



In-field upgradeable

- Supports in-field upgrade via USB port
- High installation/usage flexibility
- Future-proof Wireless Transceiver
- Low risk bundle device for Gateways, Set Top Boxes, Bridges, Access Points etc.

Zigbee/Thread/BLE USB Stick



Description

The product is a low cost 2.4GHz Multi-Protocol USB Transceiver designed for Gateways, Set Top Boxes, Raspberry Pi's and other types of Controller devices. The product provides easily connection to either Zigbee, BLE, Thread or Proprietary Protocol Devices/networks. The product supports Over-The-Wire (OTW) Firmware Update via the USB interface, which allows easy and quick in-field change between various Protocol stacks.

The 2.4GHz Multi-protocol USB Stick provides B2B customer with a highly future-proof hardware platform due to its easy adaption to a wide range of protocols, installation types and usage.

The product is offered as Pontoteq branded products as well as White Label, and can be supplied with "standard" Firmware as well as Customer developed Firmware.

The drive supports USB v2.0 full-speed and when plugged into a host device, the Zigbee/BLE/Thread USB stick appears as a virtual serial COM port.

Specifications:

- 2.4GHz transceiver support for Zigbee, Thread or BLE
- Easy support for Zigbee, Thread or BLE by Gateways, Set Top Boxes, PC and other Controller devices
- Prepared for dual protocol operation
- Supports Over-The-Wire (OTW) firmware update
- Supports USB v2.0 full-speed

RF Specifications:

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|-------------------|--|
| - Transceiver | : Silabs EFR32MG21 |
| - Frequency | : 2.4GHz |
| - Antenna | : PCB |
| - Protocols | : Zigbee, Thread, BLE |
| - Stack | : EmberZNet Serial Protocol (EZSP) |
| - ZigBee Dev. Kit | : Silicon Labs EmberZNet Pro Release 6.0 |

Technical Specifications:

Supply	: 5V DC / up to 150mA
USB	: v2.0 full speed (12Mbps)
Bridge	: USB to UART, Silabs CP2102
Virtual COM Port	: Windows 7/Vista/XP/Server 2003/2000/Mac OS-X/Linux

Approvals:

RF/EMI	: FCC
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Mechanical Specifications:

Dimensions (LxWxH)	: 38 x 18 x 4.6mm
Weight	: 2g

Part number:

PT24MPUSB-2	2.4GHz Multi-Protocol USB Stick
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FCC warning note:

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.