

ETRX2USB – (ZigBee Technology)

Wireless Mesh Networking USB Stick



To accompany the Telegesis ETRX2 wireless mesh networking modules the ETRX2USB universal serial bus stick offers an easy way to ZigBee enable personal computers.

Using a virtual com port the Telegesis AT-Command interface - based on the EmberZNet meshing stack - can be easily accessed by the application software. Custom firmware development is also supported.

USB FEATURES

- ETRX2USB acts as a USB2.0 to serial bridge connected to an ETRX2 module.
- Driver Support for Windows 98SE/2000/XP, MAC OS-9, MAC OS-X, Linux.
- Telegesis Terminal support for Windows.
- Allows access to the module's AT-Command line interface via a virtual com port.
- USB bus powered.
- Supports Low power Modes.
- USB 2.0 Full Speed Device, backwards compatible to USB1.1 hosts.
- Form factor: USB Stick L80mm x W26mm x H8.5mm.
- In circuit Programming/Debugging Headers allow for custom firmware development based on the ETRX2 platform.
- On Request application specific firmware can be developed.
- Operating Temperature range -40°C - +85°C.

WINDOWS SOFTWARE

As a helpful starting point for developers, Telegesis supplies the Telegesis Terminal application with the ETRX2USB. This terminal program fully supports the USB stick.

Host application development is very straightforward as the ETRX2USB stick is simply accessed via a virtual COM port.

ETRX2 FEATURES

- ETRX2USB is based on the ETRX2 Ember EM250 single chip ZigBee / 802.15.4 solution with on die 16-bit XAP2b microprocessor).
- No need for RF design experience or expertise.
- 2.4GHz ISM Band digital direct sequence spread spectrum transceiver.
- Hardware acceleration for IEEE802.15.4 operations.
- Hardware supported encryption (AES-128).
- Pre-programmed with Telegesis AT-Command interface.
- Can be configured to act as a ZigBee coordinator, router or end device.
- Ideal for use as a commissioning tool when setting up networks.

The ETRX2USB is also available in a Power Amplified form – see ETRX2-PA for range & specification details



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