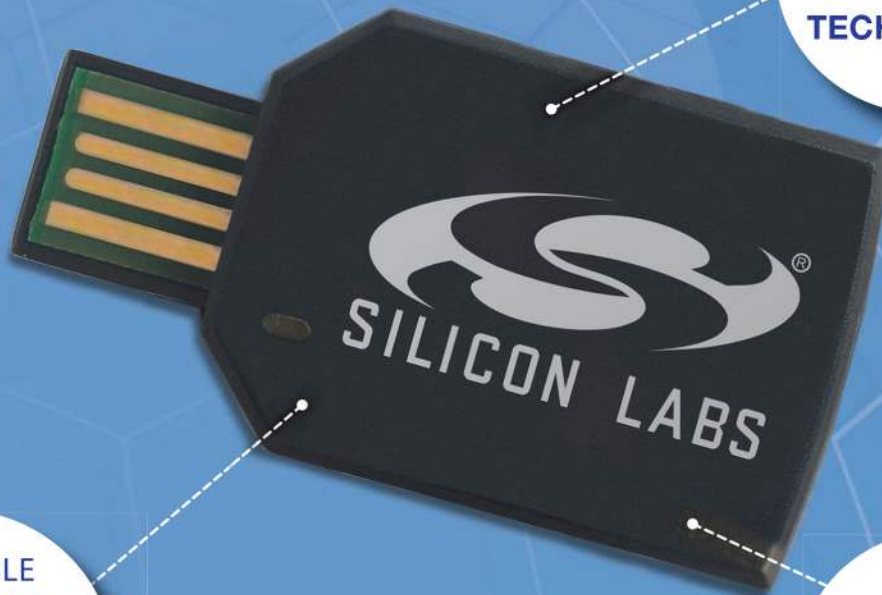


# ZigBee ETRX358 USB Stick



Based on our ETRX3588 ZigBee module the ETRX358 USB stick brings users all the functionality and performance of the ETRX3 family in a USB stick form factor. For fast production development the device features the Telegesis AT Command line interface which allows quick integration of ZigBee technology to virtually any USB enabled product.



**QUICK  
INTEGRATION  
OF ZIGBEE  
TECHNOLOGY**

**AVAILABLE  
STANDARD  
RANGE, LONG  
RANGE AND  
FLASH MEMORY  
VERSIONS**

**OEM BRANDING  
AVAILABLE**

# ZigBee ETRX358 USB Stick

To accompany the Telegesis ETRX35x wireless mesh networking modules the ETRX358USB stick offers an easy way to ZigBee-enable personal computers.

Using a virtual COM port the ZigBee firmware - based on the EmberZNet meshing stack - can be easily accessed by the application software.

Custom firmware development is also supported.

## USB Features

ETRX358USB gives direct access to the USB peripheral embedded in the Silicon Labs EM3588 ZigBee SoC	Form factor: L42mm x W20mm x H4.07mm
Driver Support for Win 8.1, Vista and Win7, WinCE, MAC OS-X, Linux	On Request application specific firmware can be developed.
Telegesis Terminal support for Windows	Operating Temperature range -20°C - +85°C
Allows access to the module's command line interface via a virtual COM port	
USB 2.0 Full Speed Device, backwards compatible to USB1.1 hosts	OEM Branding Available
	Plastic colour options available (subject to MOQ)

## ETRX358 Features

ETRX358 is based on the EM3588 – the industry's first ARM® Cortex-M3 based family of ZigBee modules	No need for RF design experience or expertise
512kB flash and 64kB of RAM on-chip	Firmware upgrades via serial port or over the air (password protected)
2.4GHz ISM Band digital direct sequence spread spectrum transceiver	Ideal for use as a commissioning tool when setting up networks
Hardware acceleration for IEEE802.15.4 operations	ETRX358USB-LRS Long Range version with 20dBm output power available in the same form factor
Hardware supported encryption (AES-128)	ETRX358USB + 8M & ETRX358USB-LRS +8M have 8mbit Flash memory

## Compatibility

• Devices are despatched with the latest Telegesis AT command set firmware.

• The ETRX358 USB stick is 'Thread Ready'.



## Typical application areas

AMR - ZigBee Smart Energy applications

Internet of Things

Commercial Lighting

ZigBee Smart Energy

Remote Monitoring

Health & Fitness Monitoring

## Supports ZigBee profiles

Wireless alarms and security

Home/building automation

M2M industrial controls

Environmental monitoring & Control

Lighting and ventilation control

## Windows Software

As a helpful starting point for developers, Telegesis supplies the Telegesis Terminal application with the ETRX358USB. This terminal program fully supports the USB stick.

Host application development is very straightforward as the ETRX358USB stick is simply accessed via a virtual COM port

## Example AT-Style Commands

- AT+BCAST Send a Broadcast
- AT+UCAST:<address> Send a Unicast
- AT+EN Establish network
- AT+JN Join network
- At power-up the last configuration is loaded from nonvolatile
- S-Registers, which can eliminate the need for an additional host controller.

The ETRX358USB is also available in a long range form – see ETRX358-LRS module for specification details.

## Additional Firmware versions - HA CIE and Smart Energy IHD

Please contact us for more information / pricing using the below details.