



Router-E – (ZigBee Technology)

Wireless Mesh Networking Router

To accompany the Telegesis ETRX2 wireless mesh networking modules the Router-E offers an easy way to extend the range of ZigBee networks.

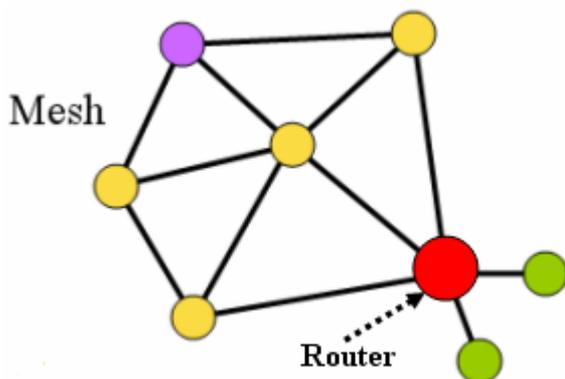
Custom firmware development is also supported.

ROUTER-E FEATURES

- Hosts a Telegesis ETRX2 module.
- Complete SIF interface for Custom application development and real time debugging of custom firmware.

USE CASES

- Acts as a “router” which enables increased distance between nodes in a ZigBee network.
- If the distance between two nodes is too great for communication to be established, simply place one or more Routers in-between and the mesh will self-form.
- The Router-E has the same distance parameters as the Telegesis ETRX2 module that it contains.



Router can be placed where needed in a mesh

ETRX2 FEATURES

- The ETRX2 is based on the 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 based on the EmberZNet stack.
- Up to 4dBm output power.
- Sensitivity up to -98dBm (1% PER).

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



ZigBee® Alliance
Wireless Control That Simply Works

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