



## ETRX2DVKA – (Zigbee Technology) Module Development Kit

The Telegesis ETRX2DVKA Development Kit has been designed to enable fast and simple evaluation and development of the low cost, low power, ZigBee meshing solution provided by the ETRX2 module.

### DEVELOPMENT KIT FEATURES

This ETRX2 Development Kit provides genuine quick and easy, out-of-the-box construction of a working mesh network. Using the comprehensive AT-style Command Dictionary and the simple to use Telegesis Terminal software package provided, it should take less than half an hour to set up a three-way mesh network and to begin detailed, in-depth assessment of the latest EmberZNet meshing technology.

Included in the kit are both a full Development Board and two Module Carrier Boards with the following features:

- 2 LEDs.
- 2 buttons.
- On board 3V voltage regulator.
- Operating Voltage 4 - 7V.
- Temperature Sensor.
- Light Sensor.
- SIF Interface for programming and real time debugging of custom firmware.

The carrier boards allow you to quickly experiment with sensors and actuators and are ideal for demonstrations and prototyping. They can either be battery or mains powered. The module's serial port can be accessed via pads or by plugging the Module Carrier Board onto the development board.

### MODULE CARRIER BOARD PIN/FUNCTION TABLE

I/O0 – BUTTON  
 I/O1 – BUTTON  
 I/O3 – BEEPER  
 I/O5 – GREEN LED  
 I/O7 – RED LED

### DEVELOPMENT KIT CONTENTS

- 1 x ETRX2DV Development Board.
- 1 x ETRX2HW Module with a fitted Harwin 1.27mm pitch, 10 x 2 connector.
- 2 x ETRX2MCB Carrier Boards fitted with ETRX2 modules.
- 2 x AA Battery Holders with leads.
- 1 x USB cable.

### THE ETRX2DV DEVELOPMENT BOARD

- Board Dimensions 100mm x 80mm.
- USB to Serial Bridge.
- On Board 3.3V Voltage regulator, powered from the USB bus.
- Virtual com port on the PC created by driver, allowing easy access to the AT-Command interface.
- Breakout of selected pins of the ETRX2 modules.
- 4 LED's, 4 buttons, 2 potentiometers and a beeper which can be connected to the I/O of the ETRX2 module.
- SIF Interface for programming and real time debugging of custom firmware.
- The ETRX2 Module is connected to the Development board by the Harwin 1.27mm pitch surface mount header allowing a plug-in solution.
- Reset and Bootload button.

Once connected, select your chosen commands from the AT style Command Dictionary and type them into the Telegesis Terminal software – obtainable free from [www.telegesis.com](http://www.telegesis.com)

