



## 802.15.4 and ZigBee® OEM Hardware Platforms

Software Technologies Group (STG), provides platforms for product developers to implement 802.15.4 and ZigBee networks without the need to design and develop network infrastructure devices.

Software Technologies Group provides a full suite of software, hardware and engineering services to complete your 802.15.4, ZigBee, and WirelessHART products.

802.15.4 Access Platform

802.15.4 Bridge

802.15.4 MAC and Core RTOS

MAC Extender

OEM Router for ZigBee Networks

WiHART Protocol Software

Wireless Product Engineering Services

Embedded Software Development

Hardware Design Services

Multiplatform Porting Services

Reference Design Development Services

OEM Customization and adaptation

Application Programming Interface Development



### 802.15.4 Access Platform

The STG 802.15.4 Access Platform Provides a platform for building custom gateways and gaining access into 802.15.4 networks.

- Ready for custom software with no hardware development by the OEM
- Comes complete with the STG "MAC Extender"
  - A two part software API providing access to all 802.15.4 MAC functions over a TCP link
  - Allows 802.15.4 applications to be built remotely on a variety of host systems
  - API is provided in source code form for easy porting to a variety of target platforms
- Ethernet and USB connectivity to host system supported
- Can be custom programmed
- FCC certified with 100mW maximum RF output
- ZigBee-capable platform

For information, please call  
708.547.0110 or write [sales@stg.com](mailto:sales@stg.com)



Engineering Solutions for Product Developers

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### 802.15.4 Bridge

The STG 802.15.4 bridge provides a off-the-shelf, FCC–certified hardware platform to extend the range of wireless networks through the use wired and wireless TCP/IP networks. Features include:

- Ties two 802.15.4 PAN segments together (including ZigBee and proprietary 802.15.4 protocols)
- Supports “channel bridging”, PAN tracking and PAN filtering
- Remotely configurable via web interface
- FCC certified with 100mW maximum RF output

Ethernet and 802.11b connectivity supported. Bridge functionality can be repackaged to suit alternate or custom enclosures.

### OEM Router for ZigBee Networks

The STG OEM Router for ZigBee Networks provides an off-the-shelf, FCC-certified platform for quickly building ZigBee networks in an easy to deploy and functional form factor. The router plugs directly into electrical outlets and is designed for easy customization and configuration. Features include:

- Easily configurable pre-sets
  - MAC ID
  - PAN ID list
  - Radio channel mask
- OEM definable button functionality
- Supports easy branding and customization
- FCC certified with 100mW maximum RF output

The basic Router functionality can be repackaged to support different electrical receptacles, optional battery backup and different enclosures.



### New products for 2009

ZigBee Pro variants of STG’s OEM products including:

- Additional customization options
- Higher network performance
- Enhanced security options
- And more...

### About Software Technologies Group, Inc.

Software Technologies Group, Inc. (STG) provides engineering solutions for product developers allowing its customers to fully implement hardware and software technologies in their products. Since 1990, STG has provided end-to-end product development related services including design, development, testing and support. STG’s broad expertise in a variety of commercial, real-time and embedded operating systems and proven development methodology enable delivery of total solutions for a wide range of markets. STG can be reached at 708.547.0110 or at its website <http://www.stg.com>.

“ZigBee” is a registered trademark of the ZigBee Alliance which can be reached at <http://www.zigbee.org>.



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