



ADAPTIVE NETWORK

SOLUTIONS

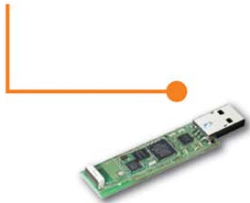
... smarter wireless connectivity

@ANY DESIGN Sub-1GHz/IEEE802.15.4 Development Kit

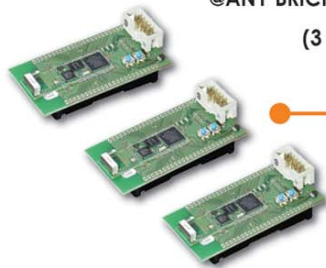


@ANY DESIGN Development Kit is a comprehensive toolset enabling easy design, prototyping and deployment of wireless IEEE802.15.4/ZigBee solutions, using Adaptive Network Solutions' @ANY product platform. The development kit provides the developers with everything they need to create market-ready wireless systems and applications, while mastering the intricacies of WSN technology. The kit features support of third party applications, reference implementations and example application utilizing various interfaces. @ANY DESIGN kit supports the intuitive development environment from Atmel, including embedded debugging feature using Atmel JTAG in-circuit debugger. The JTAG programming interfaces facilitate design, debugging and update of custom applications.

@ANY USB Dongle (1 pc.)



@ANY BRICK development boards (3 pcs.)



Software & documentation CD



mJTAG stand-off adapter (1 pc.)

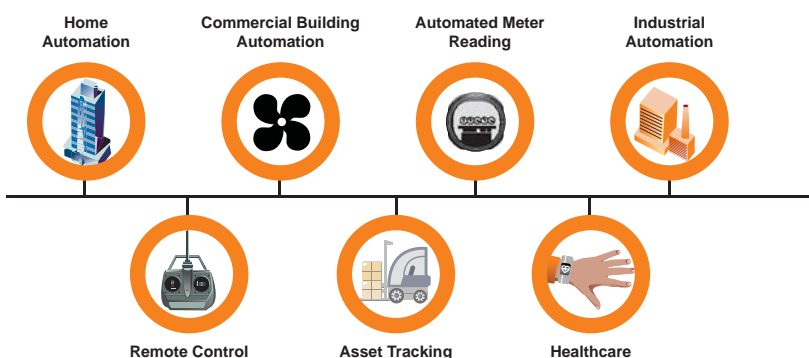


@ANY DESIGN Development Kit's Features & Benefits

- Fully programmable ANY-USB dongle and @ANY BRICK boards
- Smart MAC Suite (SMS) Base has example applications
- Easy implementation of various sensors over @ANY BRICK boards
- Compliance with 3rd party embedded software applications, such as Atmels BitCloud® stack and associated ANSI C API programmability, as well as 6LoWPAN solutions
- Compliance with 3rd party applications such as wireless sensor networking demo application, range measurement, etc.
- Provision of reference implementations and example applications utilizing various interfaces that are available in source by upgrading to SMS Pro version.
- **SMS Pro development version** is designated to be a code base for customer requested extensions and is supplied as a programming library in order to facilitate custom extensions such as support of third-party sensors.

Protocol Analyzer Software

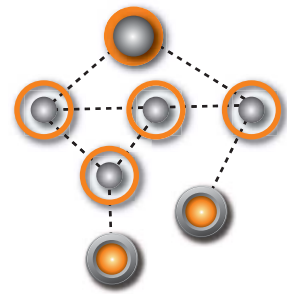
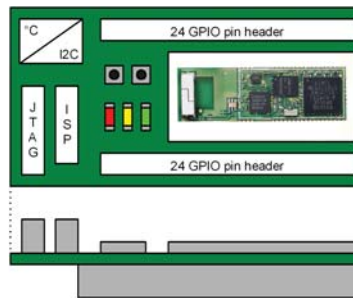
30-Day Evaluation Version of the latest IEEE 802.15.4/ZigBee/6LoWPAN Protocol Analyzer for 868/915 MHz ISM bands that was jointly developed with Perytons Ltd. is included in the development kit. You can also request to download the Free 30-day Evaluation Version at www.perytons.com





BRICK Development Board for IEEE 802.15.4/ZigBee® Wireless Mesh Networking Applications

The **BRICK** Development Board is a self-contained sensor node containing @ANY 900/2400 modules and possessing their RF characteristics. The board features JTAG connector for easy on-board programming, status LED's, reset and programmable buttons, allowing to program individual functions. The BRICK board also has integrated temperature sensor for reference purposes. The board is powered by two AAA batteries or mains power supply. This versatile development board gives developers an utmost flexibility all the way to the final stages of design. BRICK's easy configuration allows running different network topologies in order to determine which suits application demands the best. It also allows seamless upgrades at a later stage. Further enhancing the flexibility during evaluation & development phases, all connections of @ANY modules are fully functional and could be easily utilized. These vital functions allow a maximum flexibility for a developer.



Embedded Software

A.N. Solutions applies the same modular approach in software, as it does in hardware. The various embedded software components are designed to interoperate seamlessly and can be easily mixed-and-matched depending on the exact needs of a client. The following @ANY software components are to be available:

- **@ANY Smart MAC Suite ("SMS")** offers easy control of @ANY platform's functionality via AT commands supporting all IEEE 802.15.4-based functions, as well as facilitates the addition of numerous custom features. The software suite is provided in two different versions, **SMS Base** and **SMS Pro**:
 - **@ANY SMS Base** version provides some basic functionality designed for simple network topologies and evaluation purposes. It can be used to set up Coordinator - End device (star, peer-to-peer) topologies.
 - **@ANY SMS Pro** version facilitates development of complex applications and supports additional Tree topologies with static routing, based on IEEE 802.15.4 MAC layer. This allows a large number of versatile example applications. **SMS Pro** also provides additional features like data broadcasting and full function device functionality. The data redirect feature enables users to set up tree network topologies. Finally, **SMS Pro** is designated to be a code base for customer requested extensions.
 - Both version will be complemented by **@ANY SMS Monitor**, a simple, user-friendly GUI for network monitoring and application- driven extensions.
- Mesh networking topologies supporting dynamic routing schemes, based on IEEE 802.15.4 that are compliant to **ZigBee PRO**, **6LoWPAN**, as well as **Wireless HART**, can be implemented and customized on request.

Ordering Information	
Part Numbers	AT-ANY-DESIGN 900-1 (based on @ANY900-1 RF Module) AT-ANY-DESIGN 900-2 (based on @ANY900-2 RF Module)
Availability	Available directly and via distributor partners

IMPORTANT NOTE: All data contained herewith are preliminary data only.

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