

RapidConnect™

- ▶ Accelerate typical time-to-market from 2 years to 2 months
- ▶ Dramatically cut development costs
- ▶ Sell to multiple platforms, markets and channels with minimum SKUs
- ▶ Achieve market acceptance with proven connectivity and world-class support

AUTOMATION

RapidConnect is a drop-in hardware and embedded software platform that **fully automates ZigBee Smart Energy and Home Automation**. Integrate ZigBee today, with a simplified transition to future standards versions.

COMPATIBILITY

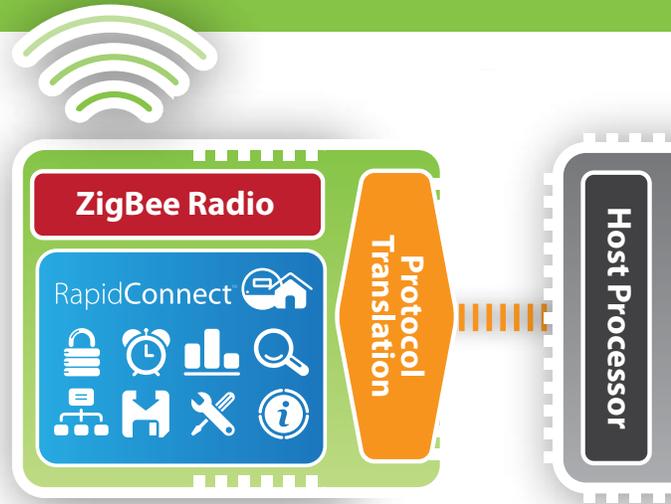
RapidConnect is built on years of development and experience with ZigBee applications, integration and testing, and **automatically adapts to different platforms** like those from iControl™ and Control4™.

ADAPTABILITY

RapidConnect is as **turnkey or adaptable as you need**. Use only the functions you need and let RapidConnect automate the rest. Either use the simple serial protocol, or **RapidConnect can be adapted to speak your devices' existing protocol for an effortless integration**.

SERVICES & SUPPORT

RapidConnect is backed by MMB Networks' **world-class support and engineering services**. From supporting integration, to designing customized hardware, MMB offers a full range of services to accelerate your solution.



Options for Every Application

RapidConnect can be integrated in a number of flexible configurations, from surface mount and USNAP modules, to USB Sticks, to **embeddable firmware libraries**.

ZigBee Module



ZigBee USB Stick



Desktop Software



Development Kits



Why RapidConnect?

Market Access

RapidConnect changes the conversation from what hardware (ICs, Modules) to select, to what markets and platforms customers can sell product through — from MSOs such as Comcast, Time Warner, and Cox, to Big Box stores such as Lowes, and Best Buy, to major utilities. Products embedded with MMB's solutions will work with these platforms out-of-the-box, giving OEMs a huge advantage in terms of expanded market size and accelerated customer acceptance.

Accelerated Time-To-Market

MMB dramatically cuts typical time-to-market for its customers. Our automated connectivity platform allows OEMs to leapfrog development, and our leadership in standards development means our customers can integrate the latest and upcoming standard versions into their new products.

No Stranded Assets

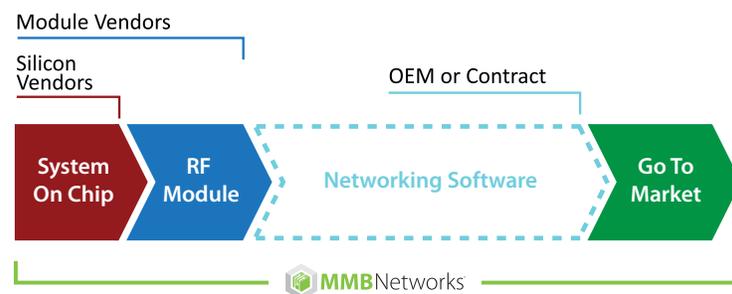
RapidConnect's drop-in hardware and software functionality makes it easier for customers to upgrade and retrofit their existing products — sometimes those already in the field. And all of our modules support over-the-air updates, allowing customers' products to be upgraded over a wireless connection.

Certification Simplified

We work closely and directly with leading certification houses to ensure our customers' success, resulting in a faster, lower cost and much lower risk of certification. We have a flawless track record when it comes to certification.

ZigBee Integration Challenges

Designing RF is complex but easily addressed with FCC pre-certified modules such as MMB's. But the biggest gap in connectivity is not hardware but rather the software required to connect OEM devices to a variety of platforms — a burden usually placed on the OEM.



MMB removes this burden with fully developed and automated embedded software that is market-ready out of the box, but can easily be adapted to fit a wide range of applications. Using MMB's world-class ZigBee software and hardware solution called RapidConnect customers can add connectivity rapidly, reliably and at a much lower cost, while focusing on what they do best – their own products.

At the core of our offering is a ZigBee wireless module loaded with one of MMB's advanced embedded software packages – RapidSE™ for Smart Energy applications and RapidHA™ for Home Automation applications, collectively called RapidConnect. RapidSE and RapidHA fully automate and encapsulate the complex functionality of ZigBee profiles, while delivering all the information needed by the customer's product through a simple communication interface.

What effort is required to integrate RapidConnect?

Much more than a typical AT command set, RapidConnect automatically performs complex tasks such as joining a network, service discovery, event caching and general processing of ZigBee commands, and abstracts them out to a simple serial-based API.

The only effort required on the customer's part is to implement this simple serial communication with MMB's module, from their devices' host processor or application. MMB offers development tools such as RapidSE Desktop™ and RapidHA Desktop™ software to help OEMs quickly develop and test their applications.

Can MMB help with integration activities?

Even with the ease of integration MMB provides, many customers find it faster, easier and simpler to contract us to perform some or all aspects of the hardware and software integration. MMB's experienced team of hardware and software engineers can provide contract engineering services for this task.

Can RapidConnect be integrated into customer's existing / legacy hardware?

Our module can easily be customized and/or placed onto a daughter board to provide footprint compatibility or legacy connections with existing designs.

The most common challenge – or opportunity – we and our customers run into is not legacy hardware, but software. Many customers are integrating ZigBee into devices with pre-existing, proprietary communications protocols; protocols that – for a variety of technical, cost, time or political reasons – face significant barriers to supplanting.

To address this barrier, MMB has developed a unique feature called the Virtual Host. **The Virtual Host is a software module that sits on top of our core software and translates our protocol to our customer's.** In doing so, customers save tremendous time and avoid prohibitive technical and development burdens. In many cases, our customers require no modification at all to their existing product; our module equipped with a Virtual Host layer simply plugs-and-plays.