

## Imote2.Builder Q & A

### 1. What is the Imote2.Builder?

Imote2.Builder kit is the Imote2 Software Development Kit based on the Microsoft® .NET Micro Framework. The Imote2 is Crossbow's next generation hardware platform for wireless sensor networks based on the Intel Mote 2 design licensed from Intel Corporation and is built on the Marvell PXA271 XScale ARM-based microprocessor.

### 2. What is unique about the Imote2.Builder?

For the first time, developers can design wireless sensor applications using the Visual Studio development environment and create proof of concept in hours or days, not weeks or months. Also, it is the industry's first set of tools for accelerating the development on the Marvell PXA hardware platform on which the Imote2 is built.

### 3. What are the benefits for developers?

Imote2.Builder allows for effortless development with wireless sensor applications, proof of concept in wireless sensor applications can be completed in hours or days, not weeks or months. The streamline process capitalizes on existing familiarity with the Visual Studio development environment, the .NET expertise, and the easier back-end integration to current .NET infrastructure. Also, it will reduce complexity of sensor development environments and greatly increase the design productivity.

### 4. What are the unique capabilities of the Imote2 platform?

The Imote2 platform brings a new level of performance and capacity to the processor and radio platform for wireless sensor networks. The Imote2 platform achieves this level of performance by overcoming computational and memory limitations of current platforms. This new level of performance, by orders of magnitude, enables low-power operation for battery-powered sensor network applications with data-rich problems where there is a need for both high performance and high bandwidth.

### 5. What are the applications for the Imote2 platform?

The Imote2 address those applications involving data-rich problems, where there is a need for both high performance and high bandwidth which require greater processing capability and low-power operation and a low-duty cycle to achieve longer battery-life. One case would be where, equipment condition monitoring within the factory, the Imote2 could perform complete machine analytics by itself, while using its wireless sensor network strictly for reporting the results of its analysis.

Wireless sensor applications are being used today for a wide range of applications: improve child safety, comply with green standards, protect endangered species, enhance assisted living through continuous monitoring, and improve structural and bridge monitoring, and many more. Learn more at [xbow.typepad.com](http://xbow.typepad.com).

### 6. What is included in the Imote2.Builder?

The Imote2.Builder kit includes 3 **Imote2.NET Edition modules** (IPR2410CA, which comes preloaded with .NET Micro Framework), 2 sensor boards (ITS400CA), the Microsoft .NET Micro Framework SDK, an evaluation copy of Microsoft Visual Studio 2005, and everything required to allow engineers and developers to quickly and seamlessly create robust wireless sensor applications.

## **7. What software is included with the Imote2.Builder?**

A 90-day evaluation copy of Microsoft Visual Studio 2005 is included and the .NET Micro Framework is preloaded onto the Imote2.NET Edition module (IPR2410CA).

## **8. What topology does the Imote2.Builder support?**

Currently Imote2.Builder supports the STAR topology, in the future, we expect XMesh will also be supported.

## **9. Can I upgrade from my current Imote2 (IPR2400)?**

Yes, contact Crossbow at 800-926-9832 or [sales@xbow.com](mailto:sales@xbow.com)

## **10. Can I buy additional Imote2.NET Edition (IPR2410) modules separately?**

Yes, contact Crossbow at 800-926-9832 or [sales@xbow.com](mailto:sales@xbow.com)

## **11. What is the cost of the Imote2.Builder?**

The price is \$990

## **12. When is the Imote2.Builder available?**

Imote2.Builder is available now and is currently shipping.

## **13. Where can I purchase the Imote2.Builder?**

**Call:** 800-926-9832

**Email:** [sales@xbow.com](mailto:sales@xbow.com)

**Order directly from:** <http://www.xbow.com/Products/productdetails.aspx?sid=267>

## **14. Where can I get more information? [www.xbow.com/Imote2.Builder](http://www.xbow.com/Imote2.Builder)**