



## Dear Subscriber

Though we often launch new products, it is rarer that we add a new wireless technology. But now is such an occasion. Bluetooth low energy technology is not just a flavor of Bluetooth technology – it is vastly different from Classic Bluetooth technology.

In this newsletter, we will present our latest addition to our products – the Bluetooth low energy platform OLP425 which was just announced last week. We will also explain more on what Bluetooth low energy technology is and how it differs from the other technologies.

And if you want to learn more, contact us!



## NEW PRODUCT: Bluetooth Low Energy Platform Module OLP425

The Bluetooth low energy platform module OLP425 offers a unique set of features and functionality that provides customers with a turnkey complete solution. The OLP425 can either be delivered as is with digital and analog GPIOs or complete with battery, temperature sensor, accelerometers, or other sensors.

[READ the Press Release »](#)

### Selected Key Features of the OLP425

- Bluetooth 4.0 low energy single-mode (Bluetooth Smart)
- Lots of mounting options
- Platform for customer developed applications and profiles/attributes
- GPIO/SPI/I2C/UART interface
- Analog inputs
- Battery life 1-10 years on coin cell battery
- Solder castellations for visual inspection
- Radio type approved for Europe, US and Canada
- Compliant with EMC, Safety and Medical standards
- Internal or external antenna
- Operating temperature range -40°C to +85°C
- Small size, 15x22 mm (new connectBlue form factor)

#### Possible to factory assembly with the following:

- 3-axis motion sensor / accelerometers
- Temperature sensor
- Two LEDs
- Coin cell battery holder or battery
- Push button
- JST connector
- Through-hole mounted analog or digital discrete sensors

[LEARN MORE about the OLP425 »](#)



### Watch an OLP425 Demo on YouTube to See the Possibilities of Bluetooth Low Energy Technology

[VIEW the OLP425 Video »](#)



### Bluetooth Low Energy Technology Facts

Bluetooth low energy technology offers the following features in demanding industrial and medical applications:

- High numbers of communication nodes
- Robustness equal to Classic Bluetooth technology
- Good real-time features
- Very short wake-up / connection time
- Extremely low power consumption

[READ MORE »](#)



## Is it Bluetooth or Bluetooth?

Bluetooth low energy technology is the hallmark feature of the Bluetooth Core Specification 4.0 (Bluetooth v4.0) and has inherited several technical features from Classic Bluetooth technology. Examples of inherited features include Adaptive Frequency Hopping (AFH) as well as part of the Logical Link Control and Adaptation Protocol (L2CAP) interface. This inheritance makes the technology very easy to set up as well as robust and reliable in tough environments.

But in other areas, it is a totally new technology. For instance, the technology features very efficient discovery and connection set-up, short packages and asymmetric design for small devices.

## What's the Wireless Difference?

Click on the below table to learn about some of the vital differences between four pertinent wireless technologies for tough applications:

	Bluetooth technology	Wireless LAN / WLAN	ZigBee / IEEE 802.15.4	Bluetooth low energy technology
Data throughput	0	++	-	-
Robustness	++	+/-	+/-	++
Range	10-1000m	50-300m	75m + mesh	10-300m
Local system density	++	-	+/-	++
Roaming	+	++	N/A	N/A
Large scale network	-	+/-	++	++
Low latency	++	+/-	-	++
Connection set-up speed	-	+/-	+	++
Power consumption	+	-	++	+++
Cost	+	-	+	++



## Learn More from Wireless Experts

The introduction of the Bluetooth low energy platform module OLP425 also introduces a new technology in the connectBlue offering. Therefore, we would like to recommend the following links where you can learn more:

### connectBlue White Paper

- Wireless Technologies for Industrial Applications - Industrial Use of Bluetooth, Wireless LAN and IEEE 802.15.4

### connectBlue Articles

- Do We Need Another Wireless Technology?
- Bluetooth Low Energy Technology Makes New Applications Possible
- Bluetooth Low Energy Technology and Healthcare
- Bluetooth low energy technology - the optimal solution for wireless sensors and actuators

[READ MORE White Papers & Articles »](#)

## See a Low Energy Demo LIVE!

**Embedded World 2012** Nuremberg, Germany, February 28 - March 1. You can find us in Hall 1 (booth 1-212) only 20 meters in from the main entrance.

**Hannover Fair**, Hannover, Germany, April 23-27. You can find us in the Wireless Automation Pavilion.



HEAD OFFICE: connectBlue AB ☎ Norra Vallgatan 64 3v 📍 SE-211 22 Malmö 🇸🇪 Sweden  
Phone +46 40-6307100 ☎ Fax +46 40-237137 📧 info@connectblue.com

US OFFICE: connectBlue, Inc. ☎ 8201 164th Ave NE, Suite 200 📍 Redmond, WA98052 🇺🇸 USA  
Phone +1 (425) 442 5854 ☎ Fax +1 (312) 277 3209 📧 us-info@connectblue.com

GERMAN OFFICE: connectBlue GmbH • Raiffeisenstrasse 19 • DE-85276 Pfaffenhofen • Germany  
Phone +49 8441 786 4160 • Fax +49 8441 786 4161 • info@connectblue.com

[www.connectblue.com](http://www.connectblue.com)

©2012 connectBlue AB. All rights reserved. All specifications are subject to change without notice.