

**blue giga**

**Sharing the Wireless Excellence**



## ● Global Technology Leader Providing *Bluetooth* Platforms

Bluegiga Technologies provides *Bluetooth*-based wireless module and access device solutions to OEMs, integrators and teleoperators. The secure, cost-effective and easy to integrate devices are used by industry leaders in the areas of health and medical, automotive, audio, industrial, and consumer applications. Bluegiga was founded in 2000 with head office in Finland and sales offices in United States and Hong Kong. Through distribution network Bluegiga has presence in more than 65 countries worldwide.

Bluegiga is the innovator of *Bluetooth* multi-radio access server products and its OEM module offering has seamless co-existence with other wired and wireless technologies. Bluegiga is the innovator of BluRoam™, the unique roaming technology for *Bluetooth* devices and iWRAP™, the easy-to-use *Bluetooth* control interface. Since Bluegiga was founded, it has been a contributing member of The *Bluetooth* Special Interest Group (SIG).

## ● One-stop Turnkey Solution

Bluegiga products meet the most demanding requirements of world class enterprise. We design our products while keeping in mind that they need to function many years without any complications and having the best in class RF sensitivity, power consumption and more over, simple and efficient software layers. The products are targeted for Business-to-Business segments, which means that the guaranteed production time is longer than *Bluetooth* consumer products.

Bluegiga's Customer Support and Integration Services complete the one-stop turnkey solution by reducing notably customers' time-to-market and removing product development challenges when designing the wireless technology.

## ● Bluegiga Access Servers for Networking *Bluetooth* Devices

Bluegiga Access Servers™ offer *Bluetooth* connectivity to any *Bluetooth* enabled devices. They can also be used for combining *Bluetooth* networks to other networks.

Bluegiga Access Server combines multiple *Bluetooth* radios with GSM data, GPRS, Wi-Fi and Ethernet connectivity in one integrated form. The product is capable of serving up to 21 simultaneous *Bluetooth* connections, which makes it an ideal solution to link *Bluetooth* devices to a wide range of data networks.

Bluegiga Access Server has several pre-configured features, so that it can be adapted to a variety of legacy systems and to have SDK support for developers that extend the features against the application needs. Subsequent to generations of reliable and problem free platforms, the Bluegiga Access Server product family was created in 2002 to serve customers' needs in different environments.

*"Equipment manufacturers and system integrators are often faced with the non-trivial challenge of integrating radio frequency technologies into their own products. These integration projects need to be always completed within budgets and under tight schedules to beat the market competition while still maintaining high product quality, excellent performance, and unmatched user experience. Bluegiga provides the best type of radio technology and world-class integration support to ensure customer needs and exceed project targets."*

**Petri Salonen**  
CEO, Bluegiga Technologies Oy

## ● High Quality and Easy to Integrate *Bluetooth* Modules

Bluegiga's *Bluetooth* modules come with 10-meter range class 2 and 100-meter class 1 versions. The modules are completely integrated including the required *Bluetooth* antennas, protocol stack and end product level certifications. Bluegiga's modules enable product development without spending time and money on complex RF designs. The modules are equipped with the full software stack and are available with all the major standard firmware options and custom firmware for specific customers. The modules enable device manufacturers to simply add secure and strong wireless communication links to the new and existing applications. Bluegiga's *Bluetooth* modules offer great value to original equipment manufacturers and system integrators with their unique BluRoam™ roaming capability, iWRAP™ control interface and several development tools.

## ● Success story: Polar Electro Polar's Team2 system uses *Bluetooth* for easy group heart rate monitoring



Polar is a Finnish company that has emerged as the market leading brand of technology innovations and heart rate monitors since 1977. It helps customers understand their body with a combination of expertise in sports, physiology and electronics, coupled with a deep understanding of customer needs.

Polar's latest addition to their world-class training programs is the Team2 system that allows simultaneous heart rate monitoring for 28 players in real time. The base station is equipped with Bluegiga's PCB2294 Access Server and the heart rate monitors with class 1, WT11-A-A1 *Bluetooth* Module. The system allows +100 meter range and *Bluetooth* communication with Team2 heart rate transmitters during online training sessions.

Team2 group heart monitoring system's flexibility allows teams to monitor each player on your laptop, PDA and the system's wrist units from different locations. The technology used allows creating an ongoing training program to achieve group and individual performance targets.

## ● Success story: WH Smith Utilizing the world's first *Bluetooth* roaming solution



WH Smith PLC is one of the UK's leading retail groups. The High Street stores sell a wide range of newspapers, stationery, books and entertainment products.

WH Smith selected Nordic ID's RF651 handheld terminals in partnership with BT Expedite, who are the architects of the WH Smith IT infrastructure. The solution roll-out started in October 2006 and to date have installed over 1 500 RF651's, with more than two thousand Bluegiga Access Servers and more than five hundred Paxar *Bluetooth* printers in all high street stores.

This solution provided by Nordic ID and BT Expedite is the world's first roaming *Bluetooth* solution. The RF651 is a *Bluetooth* terminal that connects remotely to the *Bluetooth* module in the Bluegiga Access Servers. The handsets will then automatically 'roam', connecting to the Access Server that gives out the strongest signal. The roaming *Bluetooth* network covers the whole store environment.



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