

## 20% reduction in all Jennic ZigBee & IEEE802.15.4 evaluation kits from GLYN

Developing wireless sensor network products based on the IEEE802.15.4/ZigBee standards is easy with Jennic's complete range of evaluation kits and software. And now it is cheaper than ever, with a 20% discount on all Jennic's kits if you buy from GLYN High-Tech Distribution **before Wednesday June 18<sup>th</sup>**. Simply reply to this email or [sales@glyn.com.au](mailto:sales@glyn.com.au) to place your order.



**JN5139-EK020 AU\$249 or NZ\$311 AU\$199 or NZ\$249**  
**JN5139-EK010 AU\$599 or NZ\$749 AU\$479 or NZ\$599**

The Jennic range of evaluation kits offers the hardware and software you need to start development immediately. Choose the [Jennic Starter Kit](#) (JN5139-EK020) for the most cost-effective IEEE802.15.4 development solution, reduced to only AU\$199 or NZ\$249. Use [JenNet](#) -Jennic's efficient protocol stack with a choice of easy-to-use APIs to cut development time, and build a real sensor network straight out of the box using the 3 separate nodes supplied in this kit.



More advanced development projects are supported by Jennic's five node [ZigBee](#) (JN5139-EK010) and [IEEE802.15.4/JenNet](#) kits. These evaluation kits include one controller board with LCD panel and sensor board which can measure temperature, humidity and light. Also, included are two high power modules which are ideal for long range applications.

**Want to know more?** Contact GLYN, and we'll explain how GLYN and Jennic are the easy way to add low-power wireless connectivity to your application.





Many thanks to all our visitors at the **National Manufacturing Week 2008** event in Sydney last week!

## News Highlights – Issue 26:

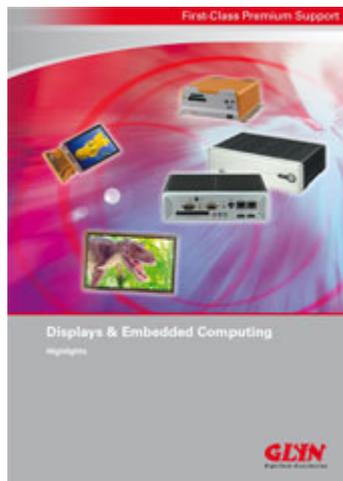
[Jennic Evaluation Kits Special Offer](#)

[GLYN Displays & Embedded Computing Brochure Now Available](#)

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### GLYN Displays & Embedded Computing Brochure Now Available



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- *Display Graphics Module Solutions* - OLED Display Graphics Modules
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- *Touch Panel Products* - Resistive and Capacitive TP and TP Controllers
- *Embedded Computing* - including Boxed Computers, Panel PC, and Single Board Computers

For more information or quote on GLYN Displays and Embedded Computing products, please send us an email at [sales@glyn.com.au](mailto:sales@glyn.com.au)



### Bluegiga Launches New WT21 Bluetooth Module



Bluegiga Technologies Oy, a leading provider of Bluetooth platforms for system integrators and OEMs, available through [GLYN High-Tech Distribution](#) recently launched its new WT21 Bluetooth Module, the latest addition to its leading range of Bluetooth modules. Incorporating CSR's BlueCore-6 chipset and supporting the latest Bluetooth 2.1 Host Controller interface firmware, it offers users a straightforward way of implementing Bluetooth.

WT21 is an ideal product for an OEM who does not want to spend significant amount of time and money to RF regulatory approvals or designing complex Bluetooth 2,4 GHz radio. WT21 is designed to require a minimum amount of external components - it's equipped

with a Bluetooth radio, integrated antenna/RF-pin and embedded HCI lower level stack. WT21 also has Bluetooth controller subsystem certification as well as the CE, FCC and Industry Canada approvals, minimizing the amount of additional RF testing demands and securing a fast and easy path to develop products to be fully Bluetooth compliant.

WT21 is a new generation module using completely new ways of implementing the Bluetooth functionalities. It offers Bluetooth class 1 radio in the form-factor, power consumption and pricing levels similar to the 10-meter range class 2 products.

"With our new WT21 Bluetooth module we keep leading the way for the industry, providing our customers the maximum integration level for HCI applications, and RF quality", comments Tom Nordman, Bluegiga's Vice President of Sales and Marketing, "The product is easy to understand, use and manage, ensuring that our customers enter the market with superior products on time and within budget."

WT21 is designed to be embedded into products having a processor that is capable of running Bluetooth upper layer protocol stack. WT21 mass production starts during the Q3 2008 and engineering samples are available in August 2008.

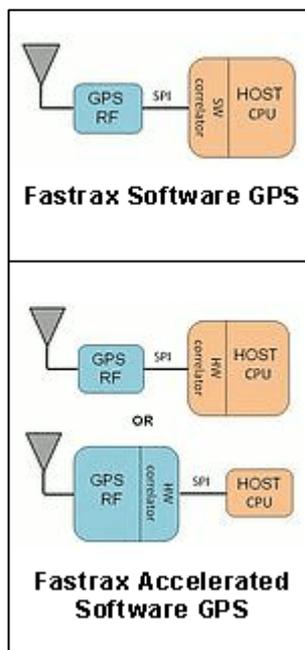
For further information on WT21 module, please visit this link <http://www.bluegiga.com/WT21-1>.

For a quote on WT21 module or for further information on other Bluegiga products, please send us an email at [sales@glyn.com.au](mailto:sales@glyn.com.au).



## **Fastrax Introduces Pure Software GPS Solution. Brings Low Cost Positioning in High Volume Consumer Devices**

*Software-based technology will extend location-based services to a wider array of consumer electronics devices*



Fastrax Ltd., a provider of programmable GPS receivers and software solutions for original equipment manufacturers and available through [GLYN High-Tech Distribution](#), recently introduced a new completely software based GPS receiver solution, with the aim of extending the use of location-based services in consumer electronics. Optimized in performance, footprint, cost efficiency and flexibility, the Fastrax Software GPS marks a new milestone in the development of pure software GPS technology.

The software-based approach is expected to increase the speed of adoption of GPS functionalities beyond the highest end cell phones and laptop computers. Target platforms include mid-tier phones, digital cameras, personal navigation devices (PND's), and other devices used while on the move. While traditional GPS solutions require the integration of a hardware component, making the design more complex and adding to the cost, a software based solution allows faster time-to-market with less costs and easily adjustable features.

"The processor performance in consumer electronics devices is constantly improving, and more and more consumer products will be able to handle calculations required for GPS positioning,"

said Kim Kaisti, co-founder and VP of Business Development at Fastrax. "A software-based approach to GPS brings a number of direct benefits to original device manufacturers. As there is no longer a need for hardware integration beyond an RF front-end, bringing location-based features to any device with the adequate processing power will be faster,

easier and less costly than ever before".

Built on the foundation of Fastrax's embedded iSuite GPS software architecture originally designed for minimal power consumption in embedded environments, the new Fastrax Software GPS offers state-of-the-art performance even with limited processing power. The processor requirement for Fastrax Software GPS is roughly 10 MIPS (million instructions per second) per tracked satellite. In contrast, the software GPS solutions already introduced in the market are typically developed based on PC solutions, originally built without explicit need to optimize power drain or processor usage.

According to Fastrax estimates, the software based approach to GPS will reduce the bill of materials to less than 3 USD per device, while still offering a similar level of GPS performance as hardware-based stand alone GPS receivers. With a cold start sensitivity of -144 dBm and a navigation sensitivity of -162 dBm, the Fastrax Software GPS solution is one of the best performing GPS solutions on the market and a new benchmark for GPS development.

The limited requirements for processing power and memory usage make Fastrax Software GPS a feasible alternative even for less powerful processor platforms. In the development of Fastrax Software GPS, the emphasis has been in the optimization of signal acquisition and correlation, the functions typically requiring the most CPU power and memory in software GPS solutions.

Fastrax's unique software GPS architecture enables the use of hardware accelerators on platforms that do not have the processing power to run a full software GPS solution. The Fastrax Accelerated Software GPS reduces the CPU load to roughly 1 MIPS per tracked satellite by performing the correlation process on hardware, either in the RF front-end chip or in the host processor. The Fastrax Accelerated Software GPS solution is targeted for devices using low-end or mid-end host processors.

To ease the deployment in different kinds of devices, the Fastrax Software GPS and the Fastrax Accelerated Software GPS are configurable to obtain the best performance on every platform, depending on processing power and memory available. The desired trade-off between navigation performance and CPU usage can be flexibly set to suit the needs of individual devices and applications.

Due to the high level of portability in the original iSuite design, porting the software to new operating systems and hardware platforms is quick and straightforward. The software has already been ported to x86 and ARM processors and Windows, Windows CE and Linux operating systems.

The Fastrax Software GPS solution is currently available for demonstration purposes. In parallel to finalizing the software GPS offerings into commercially available OEM products, Fastrax continues to pioneer the GPS receiver development by further improving its industry-leading range of programmable hardware-based GPS receivers.

For more information and detailed technical data, please see the Fastrax Software GPS Whitepaper available at <http://www.fastraxgps.com>.

For more information on other Fastrax GPS products, please send us an email at [sales@qlyn.com.au](mailto:sales@qlyn.com.au)



For more information about Glyn Ltd products, please visit our website at [www.qlyn.com.au](http://www.qlyn.com.au)

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