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ZigBee Specialist Telegesis Appoints GLYN Ltd as its ANZ Distributor

Telegesis, the world's largest supplier of Ember-based ZigBee modules, has recently appointed GLYN Ltd as its sole distributor for Australia and New Zealand.

Telegesis specialises solely on ZigBee and their products include ZigBee modules (with and without power amp), ZigBee USB stick, ZigBee Compact Flash Card, ZigBee Ethernet Access Point, ZigBee Router and ZigBee Development Kits.

As a dedicated ZigBee specialist, Telegesis can help customers build wireless capability without the need for specialist RF and embedded programmers. Customers can also get their wireless solutions to market faster at reduced engineering and design costs and at reduced design risk, allowing them to focus on their core strengths. Much of the development work customers might expect has already been done since Telegesis has already integrated a ZigBee chip, antenna and complete AT command layer into its products.

Telegesis also offers ZigBee PRO versions of their products. ZigBee PRO offers significant advantages for your next ZigBee design in many areas of operation such as scalability of large networks, security, network resilience and ease of commissioning. This is why Telegesis have chosen it as standard for its range of modules and peripherals to give customers the best experience of designing with ZigBee. Telegesis was the first ZigBee module manufacturer anywhere in the world to offer certified ZigBee PRO modules and they are now in volume production of modules with this feature.

Telegesis also has a good experience working with Smart Energy Profiles and they are actively looking for customers that need expertise in designing smart meters and in home displays.

For more information on Telegesis ZigBee products including a copy of their company, product and ZigBee overview presentation, please send us an email at sales@glyn.com.au

ORBCOMM Satellite Data Modem Provider MobiApps Appoints GLYN Ltd as its ANZ Distributor

Despite having one of the largest mobile phone networks in the world, Australia's telcos like Telstra, Optus and Vodafone covers only 20% of the Australian landmass leaving 80% out of mobile coverage, especially for Machine-to-Machine (M2M) applications.

Glyn Ltd addresses this problem by partnering with MobiApps™, a leading provider of satellite and hybrid terrestrial technologies for commercial communications. MobiApps delivers transceivers that combine satellite communications and a GPS receiver on a single chipset. MobiApps also converges wireless communications technologies such as 802.11, GPRS, CDMA, and satellite to provide global communications capabilities at a low marginal cost – allowing clients to deploy state-of-the-art communications products across a number of industrial applications.

Among MobiApps' product range, GLYN is promoting its satellite transceivers such as the m10 Satellite Data Modem. The m10 OEM Transceiver provides worldwide satellite data transmit and receive capabilities for asset-tracking and industrial remote communications. The m10 operates with the ORBCOMM low-earth orbit (LEO) satellite network, providing unlimited global coverage with no blockage. ORBCOMM is a leading global satellite data communications company focused exclusively on M2M communications. ORBCOMM provides low cost, reliable, two-way data communications services around the world through a global network of low-earth orbit satellites and accompanying ground infrastructure. The system can send and receive short messages, between six bytes and several kilobytes, in near real-time, allowing users to access critical information readily, often from areas beyond the geographic reach of terrestrial systems. It can significantly improve asset utilization by allowing automated monitoring, tracking, and management of fixed and mobile assets around the world.

Possible application areas for MobiApps satellite transceivers include remote asset tracking, utility monitoring, mining, agriculture, livestock management, water management, military and homeland security.

The m10 is well-suited for high volume applications equipped with an intelligent controller requiring only low-cost satellite communications. Its two-chip revolutionary design includes the Analog Devices Blackfin®DSP and MobiApps' m1375 RF Module, creating a fully integrated satellite transceiver, ready to connect serially to an application processor. Additional field-proven features make the m10 an ideal choice for managing and monitoring remote and mobile assets. Developers and system integrators can leverage the m10's low operations.

m10 Advantages:

- Designed for OEM use
- Simple serial interface to host processor
- Small form factor
- Direct mounting to PCB or via cable (Optional)
- Industrial grade temperature, shock & vibration resistance

Other MobiApps ORBCOMM satellite transceivers include the m100 and m200. m100 has additional features such as a GPS receiver aside from the MobiApps ORBCOMM RF module while m200 has additional interface like CAN bus.

For more information on MobiApps ORBCOMM satellite transceivers or ORBCOMM satellite network, please send us an email at sales@glyn.com.au

AverLogic Introduces H.264 Network Video Server / Display Module

AverLogic, available through GLYN High-Tech Distribution, is announcing the release of its NVS-6000 H.264 Network Video Server / Display Module. The newly designed NVS-6000 uses the H.264/AVC (MPEG-4 Part 10) compression technology and provides real-time high quality audio and video streaming. NVS-6000 delivers the same quality as MPEG-2 at one third to half the data rate and up to four times the resolution of MPEG-4 Part 2 at the same data rate.

NVS-6000 compresses NTSC/PAL video signal with different resolutions (Full-D1 max.) into H.264 Baseline/Main profile stream. It also provides different audio stream formats whenever the audio compression algorithm is used.

NVS-6000 can work as either Transmitter (Server) or Receiver (Display). There is a BT.656 output interface for connecting external display driving device.

NVS-6000 Features:
● Embedded OS and web server
● Simple web access to set parameters
● H.264 half-duplex codec compression technology
● 1-ch video encoding or decoding, 30fps@Full-D1
● 2-way Voice, GPIO, PTZ and Ethernet outlet
● BT.656 output for external display driving device
● Compact board size design for easy integration

Applications for NVS-6000 include high quality AV content distribution in the home and over the web, IP camera, and building and office security.

NVS-6000 demo units will be available by March 2009 with EVBs (modules) available by April/May 2009.

For more information on AverLogic's NVS-6000 modules, please send us an email at sales@glyn.com.au

Fastrax and SiGe Semiconductor cooperate for world's best performing Software GPS solution

Fastrax Selected SiGe Semiconductors SE4120 radio front-end to boost its Software GPS to a sensitivity of −163 dBm
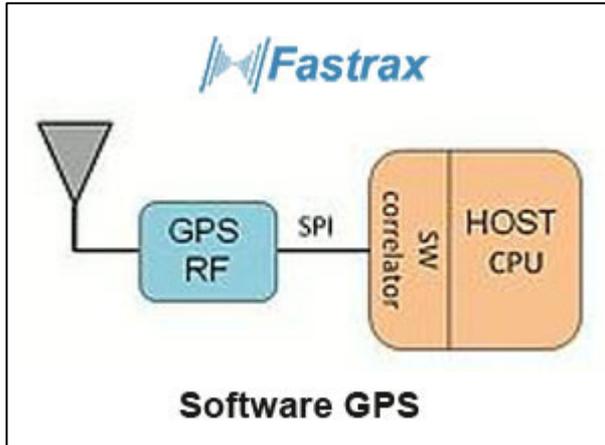
Fastrax, a pioneering supplier of high performance GPS receivers, GPS software solutions and tracking systems for location-aware devices and available through GLYN High-Tech Distribution, and SiGe Semiconductor, a leading global supplier of products that are enabling wireless multimedia in a wide variety of computing, entertainment and mobile systems, announced recently that Fastrax has selected SiGe's SE4120 to power its Software GPS solution.

As a result of the collaboration, the Fastrax Software GPS and SiGe Semiconductor's SE4120 radio front-end makes available a high performance GPS solution, complimented with a reference design to enable easy integration by third parties. The reference design is also available as a turnkey solution in the Fastrax iT900 RF module. This combined offering converts the GPS radio frequency (RF) signal into a digital intermediate frequency (IF) signal that is processed by Fastrax Software GPS solution. By deploying SiGe's IC, Fastrax Software GPS solution will provide the best user experience in a range of applications with a navigation sensitivity as high as -163 dBm.

The software-based approach is expected to increase the speed of adoption of GPS functionalities beyond the high-end cell phones. Target platforms include personal navigation devices (PND's), mobile internet devices (MIDs), ultra-mobile PCs (UMPC's), personal media players (PMPs), smartphones, digital cameras and laptops.

While traditional GPS solutions require the integration of a GPS specific baseband, making the design more complex and adding to the cost, a software-based solution allows faster time-to-market with less costs and more adjustable features. With Fastrax Software GPS the GPS functionality can easily be managed and customized to be fully optimized for each specific device and application.

"We are always looking for ways to improve our offering and want to drive the GPS technology development. When combining Fastrax software GPS with SiGe's SE4120 we can deliver exceptionally high tracking sensitivity of -163 dBm, which exceeds all known solutions available in the market. We are now raising the bar on system sensitivity," explains Kim Kaisti, co-founder and VP of Business Development at Fastrax. "SiGe's field proven leadership in GPS RF IC's, system knowledge and support was a significant driver to select them as one of our technology partners."

"Both SiGe and Fastrax focus on high-quality, low-power and high-sensitivity devices for reliable performance and stable GPS services. With Fastrax deploying our GPS solutions we have helped to build a platform that offers improved performance and opens up a whole new world of location-aware applications. The new solution will initially use our SE4120L or SE4120S devices and will support all known operating systems including all Microsoft ® Windows platforms, Embedded Linux and Nucleus, which will provide wider opportunities for device manufacturers," commented Stefan Fulga, Director Strategic Marketing of SiGe.

Fastrax Software GPS focuses on the optimization of signal acquisition and correlation, the functions typically requiring the most CPU power and memory in GPS solutions. It obtains the best performance on every platform, depending on available processing power and memory. Fastrax Software GPS flexibility enables portability to a range of CPU's, specific application processors and operating systems as it is based on the Fastrax iSuite architecture, which was originally designed for embedded environments.

The SE4120 is a highly integrated GPS/GNSS radio front-end IC, offering high performance and low power operation in a wide range of low-cost applications. It supports GPS and dual-mode L1-band GPS/GNSS products. The SE4120 features a conditioned interface for software implementations of GNSS baseband signal processing.

The SE4120 includes an on-chip LNA, a low intermediate frequency (IF) receiver with a linear AGC and an advanced multi-bit I/Q analog to digital converter (ADC) with serialized data output. The receiver incorporates a fully integrated image reject mixer, obviating the need for a SAW filter in many applications. The SE4120's on-chip IF filter may be adjusted from 2.2 MHz BW (for GPS only) to 4.4MHz BW (for simultaneous reception of GPS and GNNS signals). The digitized I/Q output, centered near-zero IF, is available in a serialized data stream to facilitate software signal processing.

The highly integrated PLL synthesizer of the SE4120 requires only two passive components to implement an off-chip loop filter. The SE4120 is optimized for the lowest possible power consumption consistent with a very low external component count.

For pricing or more information on Fastrax Software GPS solutions and Fastrax iT900 RF module, please send us an email at sales@glyn.com.au

Bluegiga Provides Health Device Profile for its Bluetooth OEM Modules

Bluegiga's OEM Bluetooth module with Health Device Profile enables simple and safe integration of wireless connectivity for health and medical devices.
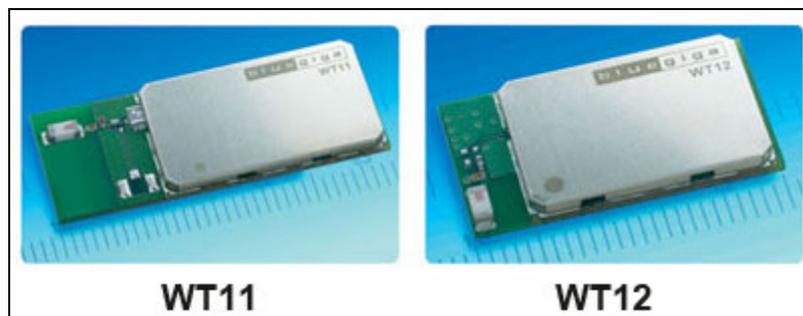
Bluegiga, available through GLYN High-Tech Distribution, announced recently that its OEM Bluetooth modules are now available with Bluetooth Health Device Profile (HDP). The Health Device profile is integrated into Bluegiga's iWRAP firmware, running inside the Bluegiga module, significantly simplifying and reducing the need for engineering and testing time for any type of health or medical device.

"Bluegiga's Health Device Bluetooth profile with Bluegiga OEM module helps a device manufacturer to develop wireless features into existing or new devices with very limited amount of engineering. Bluegiga modules are completely supported by Bluegiga meaning that for the OEMs, Bluegiga is a single point of contact for any kind of development or support", comments Mr. Mikko Savolainen, Customer Service and Product Director at Bluegiga Technologies.

The Health Device Profile is available for both Bluegiga WT11 Class 1 module and Bluegiga WT12 Class 2 module which use CSR silicon and run Bluegiga's iWRAP Bluetooth connectivity firmware. Bluegiga is the first in the world to offer HDP for CSR based silicon. Bluegiga Access Servers and Access Points will support the HDP Bluetooth Profile later in 2009, enabling integrators to setup secure and reliable telehealth networks utilizing Bluetooth.

"The HDP enabled Bluegiga Bluetooth modules are a fantastic way for OEMs to make sure that the Bluetooth project will meet high quality standards with the highest possible product reliability," says Tom Nordman, Vice President of Sales and Marketing at Bluegiga. "We already have significant amount of world leading Health and Medical device manufacturer customers for our OEM modules and Access Servers and this new Health Device Profile will also help them to make the products compatible with other medical device manufacturers".

The Health Device Profile is now available for testing and development purposes.

For pricing or more information on Bluegiga products and Health Device Profile, please send us an email at sales@glyn.com.au

For more information about GLYN Ltd products, please visit our website at www.glyn.com.au

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