Issue 43

Glyn Store Now Open for Online Purchases

Glyn has recently launched its online store (www.glynstore.com) as part of its continuing effort to improve its quality of service to its valued customers.

Featured Products include Glyn TFT Family Concept, Bluegiga's Bluetooth Low Energy products and various FTDI USB converter modules.

Currently on Clearance Sale are GPS modules UC322 and IT321 from Fastrax.

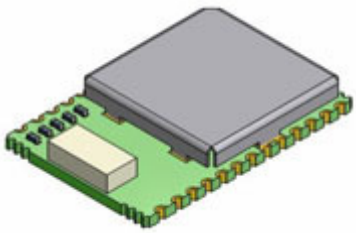
For the first 50 ANZ customers, Glyn is also offering *free shipping* for purchases over AU$100. Limit of 3 coupon usage per customer applies.

Coupon Code: PT73VHCO4AX

Credit card (Visa & Mastercard) payments are accepted via PayPal. EFT payment to Glyn bank account is also accepted.

Fastrax Unveils the World's Smallest GPS Antenna Module – UC430

The New Fastrax UC430 with Integrated Chip Antenna is a Complete Miniature Positioning Engine for Handheld Digital Devices



Fastrax Ltd., a pioneering supplier of high performance GNSS receivers, Software GNSS solutions and tracking systems for location-aware devices, recently unveiled the Fastrax UC430, a combination of a complete high-performance GPS receiver and an integrated chip antenna packed in a miniature form factor. Sized at only 9.6 x 14.0 x 1.95 mm including antenna, the low power consuming module is ideally suited for handheld computers, digital cameras, mobile phones, asset tracking devices, and other applications with space and power restrictions.

The Fastrax UC430 maintains awareness of its location at all times, contributing to fast and convenient use of location aware digital devices. By utilizing SiRFaware™ technology, including the Adaptive Micropower Controller, the module autonomously activates itself periodically from stand-by, resulting in the reduction of Time To First Fix (TTFF) by up to 70 per cent. SiRFaware is able to

maintain hot-start readiness with minimal power consumption of 125 µA average current and <10 mW in TricklePower™ 1 Hz navigation mode to ensure uncompromised battery life.

"We are delighted that the Fastrax UC430 is based on the SiRFstarIV architecture, and it is a great example of the true value added benefits that can be achieved through our partnership with Fastrax," said Kanwar Chadha, Chief Marketing Officer for CSR. "With its ability to continually maintain "better-than-hot-start" conditions without having to be kept fully turned on all the time, the SiRFstarIV architecture enables the UC430 to eliminate annoying start-up delays without draining precious battery power."

"The fast-growing popularity of location-aware features in battery-operated devices clearly increases the demand for small, compact and easy to deploy GPS designs with built-in antennas and low power consumption," said Taneli Tuurnala, CEO and President of Fastrax. "Integration of GPS features in digital cameras and the like introduces location aware features to a demanding high volume market expecting fast and reliable positioning. We believe the Fastrax UC430 is an ideal fit to these needs and an important addition to our broad portfolio of GNSS modules for all possible applications and requirements."

The self-assisted positioning feature is based on Client Generated Extended Ephemeris (CGEE), allowing the Fastrax UC430 to calculate predicted satellite positions for up to three days following the latest activation based on broadcast ephemeris data. The CGEE removes the need for expensive and time-consuming data communication required to obtain traditional A-GPS information. In addition, the module has future support and connectivity to optional external sensors for dead reckoning, enabling the detection of more accurate static position and movement when satellite signals are unavailable. In handheld digital devices, antenna design and sensitivity must compensate for varying orientation. The circular radiation pattern of the Fastrax UC430's integrated chip antenna ensures signal acquisition, while the cold start acquisition sensitivity of -147dBm and tracking sensitivity of -163dBm warrant high-performance navigation. The Fastrax UC430 also contains an active jammer remover, which tracks and removes up to eight interfering signals that would otherwise decrease navigation performance.

In addition to the integrated chip antenna, the Fastrax UC430 supports optional connectivity for external antenna signal. The option allows using the integrated antenna as a backup, enabling the module to stay operational even if the external antenna is removed or damaged. The module supports both active and passive antennas.

Application designers benefit from easy integration and reduced development time. The addition of serial connection, one control signal and power supply is all that is required to make the Fastrax UC430 operational. The UC430 is an SMT module resulting in cheaper manufacturing cost as no manual soldering is required.

Engineering samples of Fastrax UC430 are available in July 2011, and volume production is estimated to start in Q4, 2011.

For more details, send email to sales@glyn.com.au

Telit Releases World's Smallest, Powerful LGA module with Global 3G Compatibility: HE910

Can be used in any 3G network worldwide without the need for regional variants

Telit Wireless Solutions, an internationally leading specialist in machine-to-machine (M2M) technology, launches the HE910, the worldwide smallest module featuring 5-band HSPA+. The new powerful 3G Penta-Band module can be used in any 3G network worldwide without the need for regional variants. This is a strong asset for vendors who want to market their solutions worldwide. On the other hand it provides a strong benefit for end users whose portable devices require worldwide

coverage because regionally differing frequency bands are no longer an issue.

The Land-Grid-Array (LGA) form factor of the HE910 with a footprint of only 795mm2 is especially suitable for compact devices, e.g. e-readers or PDAs, with data-rich applications like multimedia. After its masterpiece GE865-QUAD, the worldwide smallest GSM/GPRS module to date, Telit shows once more its commitment to world class products with outstanding support.

For more details, send email to sales@glyn.com.au

Telit Launches World's Smallest 2G Module with Integrated A-GPS Receiver: GE864-GPS

M2M specialist adds GPS functionality to established GE864 family

Telit introduces the GE864-GPS, the new quad band module which is the smallest, and most efficient GSM/GPRS M2M module on the market with embedded GPS receiver in a compact BGA form factor. The combined solution is especially suited for highly integrated positioning solutions in automotive, tracking or security applications requiring 2G network connectivity in a very small footprint.

The new GE864-GPS shares the identical form factor and is pin-to-pin compatible with Telit's successful GE864 family, making it the smallest GSM/GPRS module in the market with full 48-channels A-GPS functionality. It combines the high performance of Telit's proven GSM/GPRS core technology with the latest SiRFstarIV™ high sensitivity single-chip A-GPS receiver.

High-level A-GPS with minimal power consumption

The new assisted GPS receiver features an optimized power management function, which allows to maintain hot start capability at minimal energy consumption, offering a position resolution accuracy of less than 2.5m. Moreover, the GE864-GPS supports Satellite Based Augmentation Systems, such as WAAS, EGNOS, MSAS and GAGAN. With a dedicated power supply circuit, the GPS chipset can work independently from the GSM chipset and still operates when the cellular part is in power saving mode or switched off. This function is very helpful for battery operated solutions that activate the communication function only upon triggering events like e.g. location changes.

The GPS receiver is equipped with a flash-based memory, so the firmware can be upgraded. The ultra small Ball-Grid-Array package (size: 30 x 30 x 2.9 mm) allows the end application to have a very low profile and small overall dimensions, facilitating the design of extremely compact location based services solutions. Since connectors are eliminated, the cost is significantly reduced as compared to conventional mounting technologies. These features, combined with the embedded Python™ script interpreter result in a very cost effective and well equipped platform, quite capable of becoming an integrated solution for the complete customer application. Additional features including jamming detection, integrated TCP/IP protocol stack, and Easy Scan® offer valuable benefits to the application developer without adding cost.

Remote upgrade capability

All Telit modules support Over-the-Air firmware update by Premium FOTA Management. By embedding RedBend's vCurrent® agent, a proven and battle-tested technology powering hundreds of millions of cellular handsets world-wide, Telit is able to update its products by transmitting only a delta file, which represents the difference between one firmware version and another. FOTA service is available for the GSM firmware and will be available in the future for the GPS firmware as well.

Dominikus Hierl, Chief Marketing Officer at Telit Communications PLC says: "The GE864-GPS is a prime example for the advantages of Telit's proven family concept. Clients who have been using the GE864-QUAD V2 in their solutions can now incorporate GPS functionality without changing the application design. This helps them to reduce development costs and time to market."

For more details, send email to sales@glyn.com.au

Fastrax Integrates GPS and Glonass in a Single GNSS Receiver Module, Introduces the New Fastrax IT600

Faster, More Accurate and More Reliable Positioning with Twice as Many Satellites Visible

Fastrax Ltd., a pioneering supplier of high performance GNSS receivers, Software GNSS solutions and tracking systems for location-aware devices, recently unveiled the Fastrax IT600, including GPS, Russian-based Glonass, Japanese QZSS and SBAS in a single receiver module. In addition to currently supported Global Navigation Satellite Systems, the IT600 is designed to also support other positioning systems such as European-based Galileo and Chinese Compass/Beidou2 in the future.

The new receiver module is specifically designed to serve the needs of the automotive industry. Enabling both GPS and Glonass generally doubles the number of visible satellites compared with using GPS only, reducing the time to first fix and increasing positioning accuracy, especially while driving in urban canyons. Fastrax IT600 provides ultimate level of reliability and highly accurate positioning even in challenging environments.

Advanced dead reckoning estimates the position of the vehicle when satellite signals are unavailable – which inevitably happens in tunnels and parking garages. The IT600 can utilize an analog gyro and odometer pulse and can later be complemented with a digital 3-axis gyro and differential wheel pulse from a vehicle's CAN interface in order to compensate for possible unavailability of GNSS signals.

Fastrax IT600 features 32 dedicated tracking channels that are dynamically assigned to acquire and track a mix of GPS, Glonass, QZSS, Galileo and Compass/Beidou2 signals. The module is able to operate normally with only one of the Global Navigation Satellite Systems (GNSS) or utilize several systems simultaneously.

Fastrax IT600 is based on the newly introduced ST Teseo II GNSS chipset (STA8088EX), marking the first time a Fastrax module is based on a chipset from STMicroelectronics. The support for multiple GNSS systems and advanced dead reckoning enables module customers to benefit from additional satellite systems and improved tracking capability and accuracy, without having to make different designs for different markets.

"The cooperation with STMicroelectronics and the new Fastrax IT600 are important milestones for us towards the automotive market", said Taneli Tuurnala, CEO and President of Fastrax. "A single module supporting multiple GNSS systems shows that the development of satellite based positioning is on a strong upward curve. Adding full blown dead reckoning support is much appreciated among our existing customer base, in addition to the new customers that have already shown interest in the new product."

"Fastrax's worldwide sales channels help bring our GNSS technology to a wider customer base", said Antonio Radaelli, Navigation & MultiMedia BU Director of STMicroelectronics. "We are selective in choosing partners, and the decision to cooperate with Fastrax for GNSS modules is based on their high level of technical expertise."

Fastrax IT600 features same small form factor as other Fastrax IT multiplatform modules, 16.2 x 18.8 x 2.3 mm, however the pin-out is different. The low power consumption of 80 mW is further decreased with the ability to turn off unused tracking channels.

Samples of Fastrax IT600 are available in September 2011, and volume production is estimated to start in October 2011.

For more details, send email to sales@glyn.com.au