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Telit's Globally Compatible UMTS/HSDPA M2M Technology Takes Next Certification Step



Telit, available through [Glyn High-Tech Distribution](#), introduces the UC864-G, a 3.5G wireless data module designed to be fully compatible with GSM/GPRS, UMTS/HSDPA and EDGE cellular networks. This enables integrators and developers to design their applications only once and take advantage of the global coverage and service flexibility afforded by the combination of the two most prevalent cellular technologies worldwide. The PTCRB-certified UC864-G module offers a radio structure comprised of quad-band support to GSM/GPRS/EDGE and tri-band UMTS/HSDPA.

"This certification is the first step to bringing our entire UMTS/HSDPA product line to the North American market. We've recognized a great demand for its capabilities that offer our customers the opportunity to

design for a global market," said Dominikus Hierl, CMO Telit Communications PLC. "This module increases functionality while maintaining Telit's core features of compact size, reliability and durability. Its success can be attributed to the simple module replacement based on the world's only 'Unified Form Factor and Family concept' using identical form factors and logical interface for GSM, CDMA and WCDMA modules."

Single platform, multiple use

With its ultra-compact design, and extended operating temperature range, the Telit UC864-G is the ideal platform for medium-to-high-volume M2M applications and mobile data and computing devices. Additional features such as integrated TCP/IP and UDP, and a three channel ADC provide extended functionality, adding value to the end application without adding cost.

The UC864-G is also fully backward compatible to existing EDGE and GSM/GPRS networks through quad-band radios. As with other Telit GSM/GPRS products, the UC864-G boasts a

range of functions for over-the-air maintenance, management of firmware and application software in the module, and Jamming Detect & Report.

UC864-G Features

The Telit UC864-E/G module are small, lightweight, low power consumption and RoHS compliant devices that allow digital communication services wherever a WCDMA/HSDPA (850 ,1900 and 2100 MHz for UC864-G and only 2100 MHz for UC864-E), GSM 850, 900, DCS 1800 or PCS 1900 network is present with additional options like an integrated GPS receiver (in UC864-G only).

The UC864-E/G is a low cost connector-less best solution for medium to high quantity projects. The UC864-E/G is provided with an 80 pin Molex board to board connector and a 50 Ohm Murata RF connector. The UC 864-G is still provided with an additional 50 Ohm Murata RF connector for GPS receiver.

The UC864-E/G module includes features like GPRS/EDGE CLASS 12, Voice, Circuit Switched Data transfer, Fax, Phonebook and SMS support, embedded TCP/IP stack and battery charging capabilities.

UG864-G Applications

- Telemetry and Telecontrol (SCADA applications)
- Security systems
- Automated Meter Reading (AMR)
- Vending machines
- POS terminals
- PDAs and Mobile Computing
- Phones and Payphones
- Automotive and Fleet Management applications
- Battery powered applications needing a battery charger
- Return channel for digital broadcasting
- Position reporting and tracking with integrated GPS

The UC864-E/G supports the following functionalities

- EASY GPRS (AT driven embedded TCP/IP protocol stack)
- EASY SCAN (full GSM frequency scanning)

From the interface point of view, the UC864-E/G provides the following:

- USB2.0 for AT commands
 - Baud rate up to 12 Mbps
- Full RS232 UART, CMOS level (ASC0) interface for AT commands:
 - Fixed baud rate up to 230 Kbps
- SIM card interface, 1.8 / 3 volts with auto-detection and hot insertion
- 22 x GPIO ports (max)
- 3 x A/D converters
- 1 x D/A converter
- 1 x buzzer output
- 1 x single led supply output

For pricing or more information on Telit UC864-G or other Telit products, please send us an email at sales@glyn.com.au.



Bluegiga Announces General Availability of its WT21 Bluetooth HCI Module

The latest addition to Bluegiga's embedded Bluetooth product range, WT21 module, offers

OEM's extremely small form factor Bluetooth HCI module with full integration and certifications.



Bluegiga Technologies Ltd., a leading provider of Bluetooth systems platform to system integrators and original equipment manufacturers and available through [GLYN High-Tech Distribution](#), announced recently the general availability of its WT21 Bluetooth module. Incorporating CSR's Bluecore6 chipset and supporting Bluetooth 2.1 specification with enhanced data rates, WT21 offers users new features of Bluetooth such as simple pairing and Enhanced Inquiry Response. WT21 is a new generation Bluetooth module offering

Bluetooth class 1 radio in the form-factor, power consumption and pricing levels similar to the 10-meter range class 2 products.

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 antenna. 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.

"With our new WT21 Bluetooth module we keep leading the way for the industry providing our customers high quality products requiring only minimum investments for engineering Bluetooth interface into any product equipped with a host controller", comments Mikko Savolainen, Bluegiga's Vice President of Product Management, "The product is easy to understand, use and manage, ensuring that our customers enter the market on time and within the budget."

WT21 is designed for embedding it into products that are capable of hosting Bluetooth stack including Point-of-Sale systems, bar code and RFID scanners, data transfer systems, and PDAs and PCs. WT21 is available for the customers immediately.

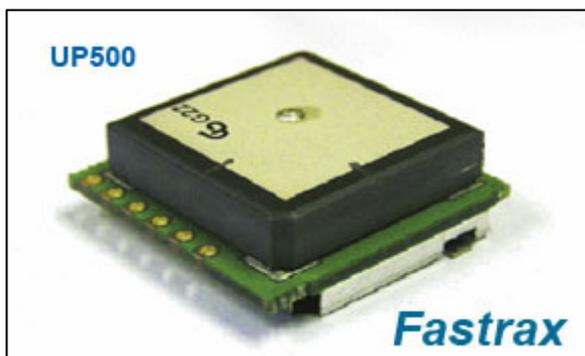
More information: http://www.bluegiga.com/WT21_Bluetooth_HCI_Module

For pricing and availability, please send us an email at sales@qlyn.com.au.



Fastrax Collaborates with MediaTek for New High Quality GPS Receivers

Cutting component costs for market leading performance, Fastrax' leading GPS expertise is integrated with MediaTek's high performance GPS chipsets



Fastrax Ltd., a provider of high performance GPS receivers and GPS software solutions for original equipment manufacturers and available through [GLYN High-Tech Distribution](#), recently introduced the new Fastrax UP500 module based on an ultra sensitive GPS chipset by MediaTek Inc., a leading fabless semiconductor company for wireless communications and digital media solutions. The cooperation

between Fastrax and MediaTek is aimed at developing high quality GPS receivers that are specifically targeted for cost effective end-device manufacturing.

Based on the MediaTek MT3318 chipset, the new Fastrax UP500 is designed for easy and reliable mounting on customer applications. With cutting-edge technology, space requirements and integration costs are reduced to the minimum. Power supply and serial data connection are all that is required to make the Fastrax UP500 operational, enabling short time-to-market for new applications, as well as easy postinstallations in multiple applications.

With an integrated patch antenna of 18 x 18 mm and navigation sensitivity of -159 dBm, the Fastrax UP500 enables high performance navigation in the most stringent applications and a solid fix even in harsh GPS conditions. Most important for high quality GPS functionalities is the ultra-high acquisition sensitivity of -146 dBm in cold start, which enables quick time-to-first-fix even in urban blocked conditions where most GPS receivers would not be able to acquire a fix at all.

The combination of small footprint, easy connectivity and low power consumption makes Fastrax UP500 an ideal solution for navigation systems, asset tracking devices and battery operated consumer products such as personal navigation devices, handheld computers, cameras, and sports accessories. In addition, Fastrax UP500 is an attractive receiver for GPS mouse applications, due to its compact all-in-one design and easy interfacing.

"The cooperation with MediaTek enables us to strengthen our position as a provider of multiplatform GPS receivers. MediaTek is known for their high quality chipsets and it was natural for us to combine our expertise to advance the development of cost effective end devices," comments Taneli Tuurnala, CEO and President of Fastrax. "The extension of our product offering with the new series of GPS receivers will provide new opportunities to our customers especially in Europe and US to integrate GPS into different consumer devices as well as industrial tracking products."

"Fastrax has been known for its reputation in developing high-quality GPS receivers. We are glad to have this opportunity to partner with Fastrax. Fastrax UP500's easy-to-deploy solution and affordable price will allow more device manufacturers to leverage the GPS function in their products," commented S.R. Tsai, General Manager of Navigation BU at MediaTek.

For more information and detailed technical data, please see the Fastrax web site at <http://www.fastraxgps.com>.

For pricing or more information, please send us an email at sales@glyn.com.au.



Yitran Announces IT700 Powerline Communication Controller Designed for Energy Management and the Smart Home



Yitran Communications, available through [GLYN High-Tech Distribution](#), announces a new line of Powerline Communications (PLC) networking controllers called IT700. This mixed signal IC is fully compliant with the HomePlug Command & Control PLC networking standard and is the first such product to be introduced in the market. IT700 is ideally suited for AMR/AMM/AMI, Home and Building Automation applications and is priced optimally for mass market adoption.

The IT700 is a highly integrated IC combining an extended 8051 CPU core, HPCC-ready PLC transceiver, 256K Flash and 16K RAM, offering data rates up to 7.5 Kbps. Manufactured on a 0.18u flash technology, the IC comes in a QFN56 package. Compared to the current IT800 series ICs, the IT700 integrates many of the components including the line driver inside the chip and takes in a single 3.3v input. The overall number of external components necessary to create a node is much less than the current products. The chip is fully backward compatible to work with legacy applications. Yitran will also provide a fully HomePlug C&C compliant data link layer (DLL) in software necessary for applications to communicate with the IT700. The DLL also implements a 128-bit AES encryption offering data security at the packet level.

IT700 Features

- Low-cost powerline communication (PLC) modem and application solution in a single chip
- Incorporates Yitran's high performance Data Link Layer (DLL), Network Protocol (Y-Net) and extremely robust Physical Layer (PHY)
- Extended 8051 microcontroller with 256KB Flash for protocol stack and application
- Protocol Controller Architecture version: pre-programmed with communication stack
- Open Solution Architecture version: allows user to program application code together with the communication stack.
- Full home coverage even under adverse line conditions
- HomePlug Command and Control ready
- Fully backward compatible with IT800 Series

IT700 Applications

Smart Grid Applications

- Automated Meter Reading (AMR)
- Advanced Meter Management (AMM)

Energy Management

- Smart Home & Building Automation
- Home Appliance Control & Diagnostics
- Security and Access Control
- Environmental Control

Commercial Applications

- Street Light Control
- Vending Machine Control
- Signage Control

Yitran also recently released a companion network layer software suite called "Y-NET". It is suitable for the development of a wide variety of command & control applications. Y-Net combines the advantages of Yitran's extremely robust and reliable IT800 PLC modem technology with enhanced Networking capabilities such as Plug & Play, Logical Network Creation, Master-Slave and Peer-to-Peer Network Configurations, Multiple Network Topologies (Fully Connected, Mesh, Tree), Multiple Network Support, Selective and Secure Participation of Nodes, Dynamic Routing/Repeating, Failure Detection, Network Parameter Recovery, etc. It allows application developers and system integrators not only seamless evaluation of the PLC modem performance, but also dramatically reducing the system development cycle.

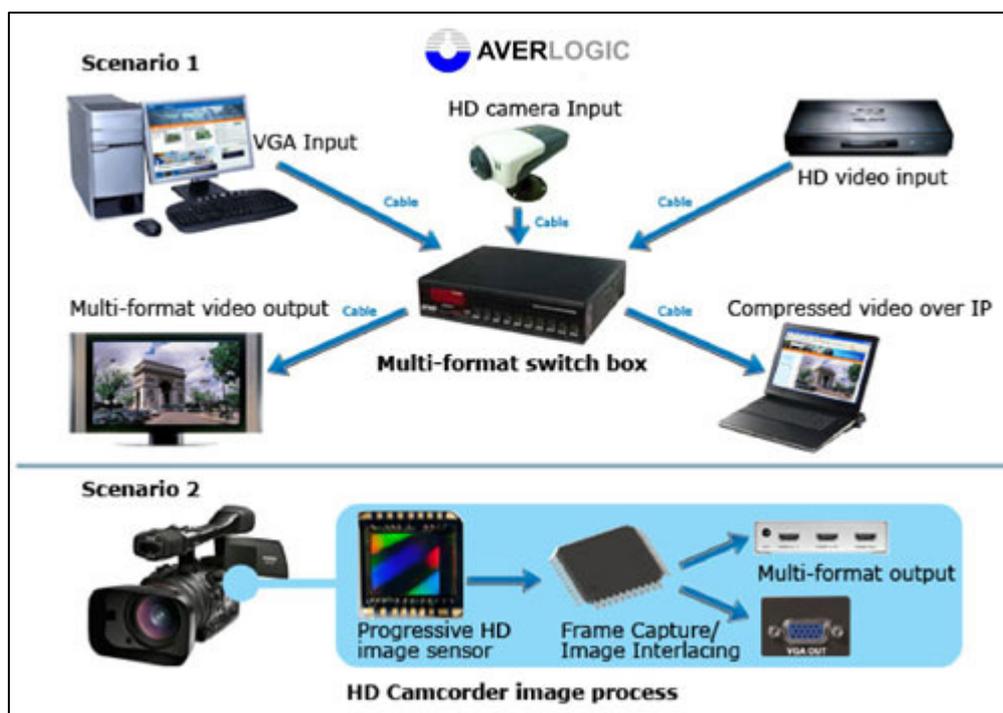
Commercial samples of the IT700 and the starter kit will be available in 4Q08 with MP scheduled for 1Q09.

For pricing or more information, please send us an email at sales@glyn.com.au.



AverLogic Introduces Full HD Video FIFO, the Fastest and Highest Density in the World

AverLogic's Full HD FIFO (First-In-First-Out) Memory AL460A-PBF is ready to sample. The AL460A-PBF consists of 128Mbit of memory density, and is configured as 8,192K x 16 bits FIFO, the optimized access scheme offers maximum R/W operating speed up to 150 MHz. The FIFO offers a simple and easy-to-use user interface supporting usage in a wide range of applications, such as multimedia systems, video capture systems, and various video data buffering applications.



AL460A Applications

Video/Audio Broadcast Market

- HDTV/SDTV video capture/editing system
- Multiple source/format switcher
- Scan rate converter
- IPTV Set-Top-Box
- Image manipulation
- Video Wall

Camera Processing Market

- HD video frame synchronizer
- Studio camera
- PIP image buffering

Video Surveillance market

- Multi-window video merging
- HD camera data buffering

Medical imaging system market

- Image grabber
- Image buffering & enhancement processor

Industrial Instrument market

- Data Synchronizer

- Time Base Correction (TBC)
- Buffer for communication systems

AL460A Features

- 128Mbit density configured as 8M x 16-bit input and output data bus width
- Supports video NTSC, PAL and HDTV up to 1080p resolutions
- Independent 16-bit read/write data bus operations (different I/O data rates acceptable)
- High speed synchronous sequential access in maximum speed 150Mhz
- Input/Output enable control
- Supports double buffer mode (Upper and Lower frame access with 4M x16-bit in each frame) via frame-select pins
- Polarity Selectable
- 2.5V and 3.3V power supply
- Standard LQFP-128 package

What are the advantages of using AL460A-PBF FIFO?

AverLogic's Full-HD (High-Definition) FIFO, AL460A-PBF, can capture up-to three full 1080p frames running at 150mhz high speed clock rate in 16 bits width of data bus. The AL460A-PBF can be applied to a wide range of video (SD/HD) and graphics applications. Designers can benefit from using the AL460A-PBF FIFO with its simple bus interface to reduce implementation and debugging efforts, improving time-to-market, and reducing engineering costs. Other advantage of using FIFOs are

- Limited glue logic required
- Reduces timing constraints in the system
- Easy expansion to accommodate varying word widths (memory depth cascading)
- Easy-to-use bus interface and bus expansion to accommodate varying bus interfaces (bus width cascading)

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