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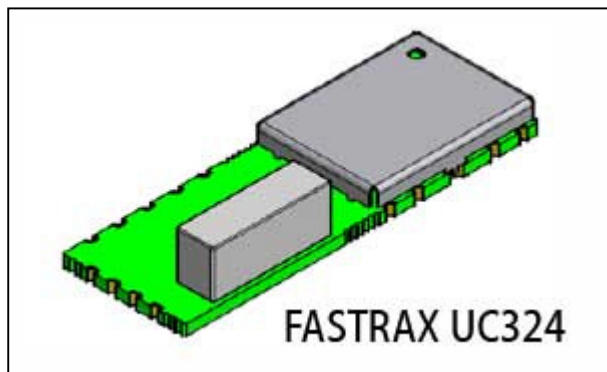
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Fastrax Introduces UC324 High Sensitivity GPS Receiver Module



Fastrax, available through [GLYN High-Tech Distribution](#), introduces its UC324 OEM GPS receiver module, which uses the state of the art SiRF single chip receiver GSC3LT having high navigation sensitivity of -159dBm. The UC324 receiver provides low power 90mW and very fast TTFF together with weak signal acquisition and tracking capability to meet even the most stringent performance expectations.

The module provides complete signal processing from embedded GPS antenna to serial data output in NMEA (or SiRF binary) messages. The embedded antenna has good radiation gain, which leads to solid GPS signal levels. The antenna operation is optimized for 50-110mm ground plane width.

In contrast to Fastrax UC322 OEM GPS module, the UC324 has no need for copper cut out under the module; rather UC324 can be placed right on ground plane. This feature allows easy placements of other components in applications requiring dense component placement.

Small module size 10.4x30.0x4.9mm together with surface mount and reflow soldering allows easy and cost effective integration to various applications. Optimum placing of the module is symmetrically at the top edge of the mother board.

The module requires only a single power supply VDD. The UC324 module interfaces to the customer's application via one serial port. Connectivity includes also a control input for Normal/Hibernate operation mode control. Serial data and all I/O signal levels are CMOS 1.8V compatible.

The module is available with two versions:

- SiRF ROM code version
- Early samples are provided with embedded flash version (4Mbit in GSC3LTf), which allows also evaluation with GSWLT3 firmware.

For more details about Fastrax UC324 GPS receiver module, please send us an email at sales@glyn.com.au



Telit Presents UC864-WD UMTS/WEDGE Module

Telit, available through [GLYN High-Tech Distribution](#), presents the UC864-WD, a 3G wireless data module designed to be fully compatible with Telit's GSM/GPRS and CDMA products in the compact, unified form factor family. This enables integrators and developers to design their applications once and take advantage of the truly global coverage and service flexibility afforded by the combination of the two most prevalent cellular technologies worldwide.



The UC864-WD operates at UMTS 900MHz / 2100MHz (suitable for Vodafone/Optus). It is pin compatible and has the same compact form factor as the other Telit modules GC864 (GSM/GPRS) and UC864-G UMTS 850 / 2100 MHz (suitable for Telstra/Telecom NZ), making it easier to design an application board that can accept any of these three modules.

The UC864-WD was designed for applications requiring global portability afforded by a radio structure comprised of dual-band support to GSM/GPRS/EDGE and dual-band UMTS including the new emerging UMTS 900MHz band service.

With its ultra-compact design, and extended operating temperature range, the Telit UC864-WD is the perfect platform for medium-to-high-volume m2m applications and mobile data and computing devices. Additional features such as, integrated TCP/IP and UDP, a three channels ADC and one channel DAC provide extended functionality, adding value to the end application without adding cost.

The UC864-WD is designed to provide customers with global network coverage. It's also fully backward compatible to existing EDGE and GSM/GPRS networks through accomplished dualband radios. The extensive interface set, which includes IIC and user definable GPIO, provides ease of integration of peripherals and actuators.

As part of Telit's commitment to protecting the customer investment in developing and deploying Telit based solutions, the UC864-WD boasts a range of functions for over-the-air maintenance and management of firmware and application software in the module.

As a part of Telit's corporate policy of environmental protection, all Telit products comply to the RoHS (Restriction of Hazardous Substances) directive of the European Union (EU Directive 2002/95/EG).

UC864-WD Features:

- UMTS 384 Kbps
- UMTS (WCDMA) 900 / 2100 MHz
- Dual-band EGSM 900 / 1800 MHz
- GPRS multi-slot class 12
- EDGE multi-slot class 12
- Dimension: 30 x 45 x 4.8mm
- Weight: 12.8 grams
- Extended temperature range
 - 30°C to +80°C (operational)
 - 40°C to +90°C (storage temperature)

For more details about Telit UC864-WD, please send us an email at sales@glyn.com.au



FTDI's Vinculum VNC1L USB Host Controller Makes USB Designs Easy



FTDI, available through [GLYN High-Tech Distribution](#), has made it easier to provide USB capability on existing or new embedded designs with its Vinculum VNC1L USB Host Controller IC and its Vinculum-based modules. The initial product member of the family is the VNC1L device with two USB Ports which can be individually configured by firmware as Host or Slave ports.

There are various ways to use the Vinculum USB host controller chip. You can connect USB Flash drives to MCUs via the Vinculum's UART, SPI or parallel FIFO interfaces. You can also connect USB device classes including Mass Storage Class, Printer Class and HID Class devices, or even FTDI's own range of USB-UART and USB-FIFO ICs to an embedded system.

VNC1L Features:

- 8/32 bit V-MCU Core
- Dual DMA controllers for hardware acceleration
- 64k Embedded Flash Program Memory
- 4k internal Data SRAM
- 2 x USB 2.0 Slow/Full speed Host/Slave Ports
- UART, SPI and Parallel FIFO interfaces
- PS2 legacy Keyboard and Mouse Interfaces
- Up to 28 GPIO pins depending on configuration
- 3.3V operation with 5V safe inputs
- Low power operation (25mA running/2mA standby)
- FTDI firmware easily updated in the field
- LQFP-48 RoHS compliant package
- Multi-processor configuration capable

FTDI's CEO., Fred Dart said - "Vinculum brings cost effective USB Host capability to products that previously did not have the hardware resources available. We anticipate that these devices will be especially popular for adding USB Flash Drive connectivity to a wide range of consumer and industrial products. As Vinculum comes complete with FTDI's in-house developed firmware, there are no USB software stacks to license, indeed, no knowledge of USB is required to use these devices."

FTDI has also developed various Vinculum-based modules for easier prototyping and evaluation.

- **V-Eval** (Vinculum development board based on the VNC1L)
- **VDIP** (DIP format VNC1L USB host controller development module)
- **VF2F** (Digital media backup to USB Flash drive - reference design)
- **VDRIVE** (Module easily adds USB Flash drive interface to MCU I/F via UART or SPI interface)
- **VMUSIC** (Module easily adds USB Flash drive Interface plus MP3 playback to MCU I/F via UART or SPI interface)
- **DLP-VLOG** (Module to allow data logging directly to a USB Flash drive using a VNC1L device with a microcontroller)

For more details about FTDI Vinculum products, please send us an email at sales@glyn.com.au



Micronas Presents First 3D Hall Effect Sensor

Innovative sensor with vertical Hall elements designed for automotive and industrial applications, as well as for use in home appliances



Micronas, a leading supplier of innovative application-specific IC and sensor system solutions for automotive electronics and available through [GLYN High-Tech Distribution](#) launched the new HAL 36xy family with their HAL 3625 Hall-effect sensor based on Micronas' 3D-Hall technology and equipped with vertical Hall elements. This technology allows rotation angles from 0° to 360° to be detected directly with minimum measuring

efforts.

Unlike today's usual Hall sensors, which use one Hall element to measure at one level only (Z-axis), the new technology allows the detection of an additional X and Y axis. Combining different axes and using the appropriate signal processing, a so-called 3D Hall sensor has been realized. The great advantage of these vertical Hall-effect sensors is that they can be manufactured in a standard CMOS process without additional post-processing. This process delivers products with ultimate quality and reliability, especially for the demanding automotive market.

The HAL 36xy product family will include several versions which will also differ in a number of essential characteristics and properties. The first member of this family offered by Micronas will be the HAL 3625 which delivers a ratiometric output format.

The 3D Hall sensor HAL 3625 features integrated signal processing and is suitable for applications calling for ultimate reliability or if operation at high ambient temperatures is intended. Customers already familiar with the standard Hall sensors (1D) can continue to use this valuable know-how.

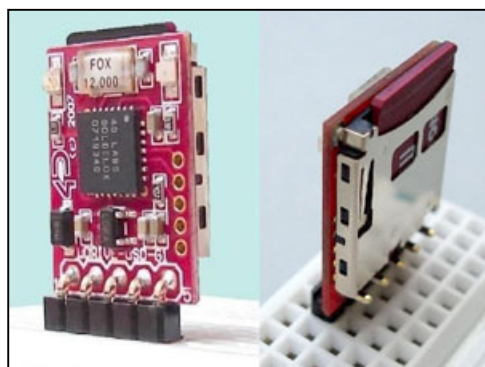
"The HAL 3625 is suitable for use in automobiles for any type of valves, TPS, EGR, turbo chargers, steering angles and so on, but also for home appliances, for instance for selector switches and for out-of-balance detection in white goods. Used in industrial automation engineering, the sensor can be combined with every kind of actuator. With the HAL 3625, Micronas targets customers such as OEMs, integrators and engineering offices", says Peter Zimmermann, Director Marketing at Micronas.

The Hall sensor will be available in the SOIC8 package and aims for the temperature range $T_J = -40\text{ °C}$ to $+170\text{ °C}$. The HAL 3625 will be offered at a price range between 1.5 € and 2.0 € with unit quantities of 100K. Samples in the SOIC8 package will be available after the third quarter of 2009. There is also the option of supplying customers only with the silicon dies.

For more information on Micronas Hall Effect sensors, please send us an email at sales@glyn.com.au



4D Systems Releases micro-DRIVE for Compact Embedded Disk Drive Module



4D Systems, available through [GLYN High-Tech Distribution](#), is announcing the release of its new micro-DRIVE (uDRIVE-uSD-G1), a compact high performance "Embedded Disk Drive" module that can be easily added to any micro-controller design that requires a DOS compatible file and data storage system. Most microcontrollers have small and limited on-chip memory. For those applications that require large volumes of data, the micro-DRIVE integrates the GOLDELOX-DOS chip onto a tiny 'drop-in-module'. A simple serial interface is all that is required to take away the burden

of low level design that would otherwise be required for the host controller.

micro-DRIVE Features:

- General purpose data storage device with a simple serial interface that can be added to any design in a wide range of embedded applications
- DOS compatible file access (FAT16 format) as well as low level access to card memory
- On board microSD memory card interface and adaptor. Accommodates off the shelf microSD removable memory cards up to 2GB capacity
- Simple serial commands provide full read-write access to the card
- Easy 5 pin interface to any host device: VCC, TX, RX, GND, RESET
- Serial interface (TTL levels) with auto-baud feature from 300 to 256K baud rates
- Onboard Status LEDs
- 3.6V to 5.5V range operation
- Tiny footprint: 14.9 x 18.9 x 3.5mm
- RoHS Compliant

micro-DRIVE Applications:

- General purpose embedded data logging
- Embedded program, data or configuration storage for processors and FPGAs
- Audio, Video and Image file storage
- GPS type data base storage
- Industrial, medical, automotive, security and gaming equipment
- Test, measurement and general purpose instrumentation

For more information on 4D Systems micro-DRIVE and smart OLED/LCD display modules, 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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