



## News Highlights – July 2006:

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### **USB Conversion Chip Manufacturer FTDI Appoints GLYN as its OEM Distributor for Australia, New Zealand**

[Glyn Ltd](#) has been recently appointed as the OEM distributor for [FTDI \(Future Technology Devices International Ltd\)](#) in Australia and New Zealand.



UK-based FTDI is a specialist in converting legacy peripherals to Universal Serial Bus (USB), offering the easiest route to USB migration by combining USB-Serial (USB-RS232) and USB-FIFO silicon solutions with their ready-to-go royalty free USB drivers. FTDI's widely popular USB conversion solutions offer reduced development and debug costs and a fast time to market. The FT232R and FT245R are the latest additions to its growing range of USB to UART and USB to FIFO conversion solutions.

The FT232R is the latest device to be added to FTDI's range of USB-UART interface integrated circuit devices. The FT232R is a USB to serial UART interface with optional clock generator output, and includes the new FTDIChip-ID™ security dongle feature. In addition, asynchronous and synchronous bit bang interface modes are available. USB to serial designs using the FT232R have been greatly simplified by fully integrating an external EEPROM, clock circuit and USB resistors onto the device. The FT232R also adds two new functions compared with its predecessors, effectively making it a "3-in-1" chip for some application areas. The internally generated clock (6MHz, 12MHz, 24MHz, and 48MHz) can be brought out of the device and used to drive a microcontroller or external logic. A unique number (the FTDIChip-ID™) is burnt into the device during manufacture and is readable over USB, thus forming the basis of a security dongle which can be used to protect customer application software from being copied. The FT232R is available in Pb-free (RoHS compliant) compact 28-Lead SSOP and QFN-32 packages.

Other members of the FTDI's USB-UART family include the 3rd generation FTDI device FT2232C, and its lead free version FT2232L. The FT2232C features two multi-purpose UART/FIFO controllers which can be configured individually in several different modes. Aside from having the UART interface, FIFO interface and the Bit-Bang IO mode of the 2nd generation FT232BM and FT245BM devices, the FT2232C offers a variety of additional new modes of operation including a Multi-Protocol Synchronous Serial Engine (MPSSE) interface which is designed specifically for synchronous serial protocols such as I2C, JTAG and SPI bus.

The latest product to FTDI's USB-FIFO family is the FT245R, a USB to parallel FIFO interface with asynchronous and synchronous bit bang interface modes. The FT245R, like the FT232R, includes the new FTDIChip-ID™ security dongle feature, as well as the full integration of an external EEPROM, clock circuit and USB resistors onto the device, making USB to parallel designs much simpler. The FT245R adds a new function compared with its predecessors, effectively making it a "2-in-1" chip for some application areas. A unique number (the FTDIChip-ID™) is burnt into the device during manufacture and is readable over USB, thus forming the basis of a security dongle which can be used to protect customer application software from being copied. The FT245R is available in Pb-free (RoHS compliant) compact 28-Lead SSOP and QFN-32 packages.



## Bluetooth Developer BLUEGIGA TECHNOLOGIES Appoints GLYN as its Exclusive Distributor for Australia, New Zealand

[Glyn Ltd](#) has been appointed as the exclusive distributor of leading Bluetooth® solutions provider [Bluegiga Technologies](#) for Australia and New Zealand, focusing on its OEM Bluetooth modules.



Headquartered in Finland, Bluegiga Technologies Ltd. is a provider of cutting-edge Bluetooth-based wireless communication platforms that are secure, cost efficient, easy-to-integrate, easy-to-use, and meeting high quality standards.

Industry leading vendors in telemetry and M2M, transportation and logistics, point of sale, automotive, and medical equipment are among the manufacturers turning to Bluegiga for the power-efficient and small-sized WRAP THOR™ Bluetooth modules to unwire their own end products. Bluegiga's WRAP THOR™ Bluetooth modules come with both 10-meter range class 2 and 100-meter class 1 variants. Equipped with the full Bluetooth software stack and available with all the major standard firmware options as well as with customer specific custom firmware, the modules enable device manufacturers to easily develop robust wireless communication links to both new and existing applications. With Bluegiga's unique BluRoam™ roaming iWRAP™ control interface, and a wide range of development tools, Bluegiga's modules offer unbeatable value to original equipment manufacturers and system integrators.

Bluegiga's complete solution typically incorporates the following devices: Bluetooth Modules and Access Servers. The role of an Access Server is to connect the Bluetooth-equipped devices to other networks such as WLAN, Ethernet, GSM/GPRS or act as a Bluetooth router between devices. The other unique feature of the Access Server is that it can host applications autonomously. This feature is widely used for data logging, application hosting, proxying and protocol conversations.

The role of Bluetooth Modules from a system's point of view is to act as a network interfaces ('wireless network card') of the device. The major benefits of using Bluetooth as a wireless network interface in a device include access to global markets, small power consumption, wide acceptance and interoperability with other vendors' devices, and security.



## TELIT Releases New GSM/GPRS Module as Migration Path for Sony Ericsson and Wavecom Module Users



[Telit Communications S.p.A.](#), available through [Glyn High-Tech Distribution](#), has announced the release of the GC864-QUAD-C2 as a migration path for existing Sony Ericsson GR47 and Wavecom GR64 users who want to take advantage of Telit's powerful GSM/GPRS module technology. Although not 100% compatible, the Telit GC864-QUAD-C2 functionality is very close to these SE and Wavecom modules and a large number of applications on these modules can be ported to the GC864-QUAD-C2 with little or no change.

The GC864-QUAD-C2 is based on Telit's ultra-compact GC864-QUAD, the smallest GSM/GPRS Quad-Band RoHS-compliant modules with industrial connectors on the market today.

With its small footprint, low power consumption and extended temperature, the Telit GC864-QUAD-C2 is the perfect platform for M2M applications and mobile data devices, allowing digital communication services wherever a GSM 850, 900, DCS 1800 or PCS 1900 network is present.

Additional features like GPRS Class 10, integrated TCP/IP protocol stack, and jamming detection give extended functionality to the application at no additional cost. Custom programmability is also available on the GC864-PY Python version, offering the possibility to run a customer code inside the module, thus making the module the smallest, complete hardware platform for individual customer solutions. State of the art SPI and IIC interfaces give connectivity to external peripherals like sensors, cameras and displays.

The GC864-QUAD-C2, along with other Telit GSM/GPRS modules, are ideal for various OEM applications such as telemetry and telecontrol (SCADA), security systems, automated meter reading (AMR), vending machines, POS terminals, PDAs and mobile computing, automotive and fleet management, and return channel for digital broadcasting. GPS functionality is also available on other Telit GSM/GPRS modules (GM862 and GE863 families).



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

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GLYN Ltd (Australia and New Zealand) is a high-tech solutions provider and the exclusive distributor for a select range of semiconductors and electronic component manufacturers from Japan, Europe, USA and Taiwan. We are the sister company of [GLYN GmbH](#) (Germany) which has sales offices throughout Central Europe, Scandinavia and the UK.

GLYN represents some of the major brands in the industry such as Mitsubishi Electric, Fujitsu, Mitsubishi Materials, Micronas, Telit, Micro Linear, Maxwell, Fastrax, Sierra Monolithics, Isahaya Semiconductors, AUO, Univision OLED and EDT LCD displays. Through our extensive network of suppliers we can also source those hard to find or obsolete items from a range of the world's premier semiconductor suppliers including Renesas, Toshiba, NEC, NEC-Tokin, Sony, Seiko Instruments, Yamaichi, Suyin, ICSI, Wavcom, Infineon, and Displaytech.