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### **Jennic and Mitsubishi Corporation Announce Strategic Partnership / JN5148 ZigBee PRO Kits & Modules Now Available**



Jennic Ltd, available through [GLYN High-Tech Distribution](#), and Mitsubishi Corporation (MC), announce a partnership agreement in Japan to serve the emerging markets for low power wireless technology. The agreement sets out the basis of a strategic partnership, with MC representing and supplying the complete range of hardware and software solutions from Jennic, and their own solutions.

Jennic's wireless solutions target the broad markets of Energy and Environmental Management, Active RFID, and Consumer Electronics. With a strong product portfolio of wireless microcontrollers, modules, evaluation kits, software stacks, recent product announcements for the JN5148 ultra-low power wireless microcontroller, an RF4CE demonstration system and escalating developments with ZigBee PRO, 6LoWPAN and Smart Energy solutions, Jennic positions itself to deliver world class technology into today's

high growth markets.

Jim Lindop, Jennic CEO, commented, "The partnership with MC undoubtedly provides a strong arm into Japan and the joined representation will significantly enhance Jennic's relationship into existing customers and extend coverage to many new customers. I firmly believe the partnership defines a significant strategic milestone, and is without question a major new chapter for Jennic in Japan".

Tadashi Takasugi, Mitsubishi Corporation General Manager, commented, "The partnership holds great synergies. Jennic's focus markets in Smart Energy, Asset Tracking / Logistics, and RF Remote Controls, play directly into MC's core business segments. Jennic have a strong reputation, competitive products and good customer traction, and MC in Japan and the rest of the world are perfectly positioned to drive these further, to become the lead supplier for low power wireless technology".

MC and Jennic have already demonstrated a strong working partnership, with MC already supporting Jennic's JN5139 wireless solution into the prominent leading Japanese consumer-electronics producers' new range of Power Consumption Monitors.

In a related development, Jennic has announced recently the release of JN5148 ZigBee PRO Evaluation Kit (P/N: JN5148-EK010, US\$649 each plus freight) and JN5148 modules (pricing available on request).

Customers with JN5139 Evaluation Kit (JN5139-EK010) can upgrade to ZigBee PRO by ordering the ZigBee PRO Upgrade Kit (P/N: JN5148-UG010, US\$249 each plus freight).

The JN5148 32-bit wireless microcontroller achieves a system operating current consumption of 18mA when receiving, and 15mA transmitting at +3dBm, which is typically 35% lower than current solutions. With 128kB ROM, 128kB RAM and enhanced coding efficiency, the JN5148 has sufficient space for developers to integrate their embedded application software and the ZigBee PRO protocol stack into a single chip. It can also be used as a co-processor, enabling ZigBee PRO to be added easily and quickly to existing systems.

Programmable CPU clock speeds from 4 to 32MHz and the use of five separate power domains provide the ability to select low power or high performance up to 32 MIPS CPU operation for the JN5148 to be used across the full range of applications from low-power battery-backed networks to high I/O, processor intensive systems. A unique patent-pending Time of Flight ranging engine integrated into the device revolutionises location-based services for sensor networks by providing improved accuracy over conventional signal strength based systems with little incremental cost.

To order or for more details on Jennic products, please send us an email at [sales@glyn.com.au](mailto:sales@glyn.com.au)



## **EM Microelectronic Introduces New 0.9V Ultra Low Voltage 8bit Flash Microcontroller Family**



*The EM6819 is capable of working with a single 1.5V battery or rechargeable 1.2V battery*

EM Microelectronic, the semiconductor company of the Swatch Group of Switzerland and available through [GLYN High-Tech Distribution](#), announces the EM6819, a new 8bit Flash Microcontroller

capable of working with a single 1.5V battery. The circuit integrates an On-Chip Temperature Sensor, 10bits ADC and Op Amp.

The EM6819's advanced power management covers the full supply voltage range from 0.9V up to 3.6V without the need for external components. It offers a unified general purpose non-volatile memory (GPNVM) for Data (up to 12kB) and program code (up to 17kB) with user defined memory allocation between the two. A built-in self-write feature allows easy software field updates.

Internal anti-counterfeit functions ensure full instruction code protection.

Using its embedded DC-DC the EM6819 creates up to 3.3V stable supply voltage and is capable of delivering 40mA at 0.9V. Increased current is available for higher battery voltages. A blue 3.3V LED can directly be lit from 0.9V.

Accurate RC clock frequency generation (1%) is offered (pre-trimming and SW on-chip temperature compensation).

Five individual oscillators are available to configure system clocking allowing micro controller operations up to 7.5 MIPS.

Using EM Microelectronic's lower power IC technology, the device operates in active mode at 1mA @15MHz and at 400nA in power down mode.

The new microcontroller is available in several memory sizes and functional configurations.

*Application* - The integrated power management makes the EM6819 ideal for use in portable and battery powered platforms as well as consumer and industrial applications.

*Availability* - The EM6819 is made available in a series of packages (SOP08 up to TSSOP28, QFN32).

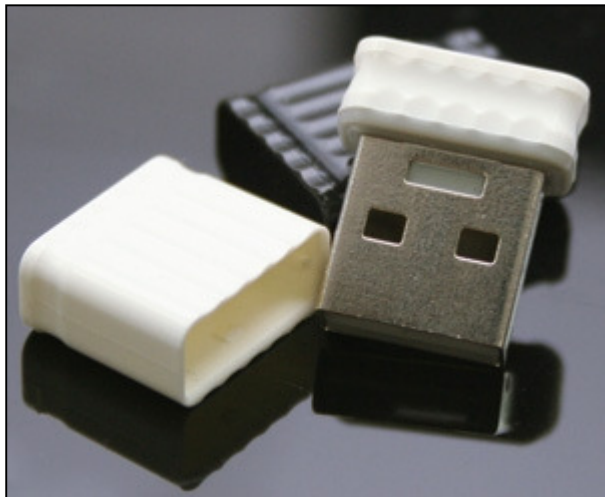
EM Microelectronic also offers professional development support tools with enhanced debug-on-chip and in-system programming interfaces.

For more details about EM Microelectronic products, please send us an email at [sales@glyn.com.au](mailto:sales@glyn.com.au)



### **The Smallest USB Stick in the World - Xmore® 's nanoUSB**

If you are working on an application with a USB interface but have little room for it, we now have the perfect solution for you:



With the dimensions of only (L)19.4 x (B)15.4 x (H)6.9 mm Xmore® 's new nanoUSB stick is probably the smallest USB stick in the world.

It was specifically developed to fit into small spaces and not stick out from the application, so that you do not have to worry about breaking it off any more.

You can even order a customised Xmore® nanoUSB stick with your company logo (minimum order quantity of 1,000).

#### *Specifications*

Capacity: 2GB, 4GB, 8GB, 16GB

Features: USB 2.0, smallest package, high quality metal housing for operating security

O/S Support: Win 98 (driver required), Win ME/2000/XP/Vista, Mac OS 9.x/Mac OS X up

Dimensions: (L)19.4 x (B)15.4 x (H)6.9 mm

Weight: 2g.

For more information on Xmore's nanoUSB, please send us an email at [sales@glyn.com.au](mailto:sales@glyn.com.au)



### **Telit Releases GE864-QUAD Atex for Explosive Environment Applications**

Telit, available through [GLYN High-Tech Distribution](http://www.glyn.com.au), releases the GE864-QUAD Atex, the extra-rugged member of the GE864 product family incorporating quad-band functionality, RoHS compliance, as well as featuring low power consumption.



The GE864-QUAD Atex module has been designed for critical applications working in explosive environments and, as such, its architectural and engineering specifications followed the strict requirements of the ATEX directive. This means, for example, that every critical component in the whole production cycle is traceable and features specific ATEX rates.

The highest level of intrinsic safety (ia) for this module makes its use suitable in the most critical environments (Group II, Category 1), and allows its integration into equipment to be

used in potentially explosive atmospheres and/or in apparatus electrically connected to others located in such atmospheres.

The Ball-Grid-Array (BGA) package provides for a very low profile in the integrated solution while at the same time enhancing the performance of mechanical resistance to shock and vibration increasing the safety of these applications. Since cost is a key element for all the applications, the elimination of connectors afforded by the BGA concept also brings down the solution cost compared to conventional mounting methods.

With his low profile design, extended temperature range, ESD and EMC compliance, the GE864-QUAD Atex is the ideal and complete hardware platform for all atex m2m markets, both OEM and aftermarket.

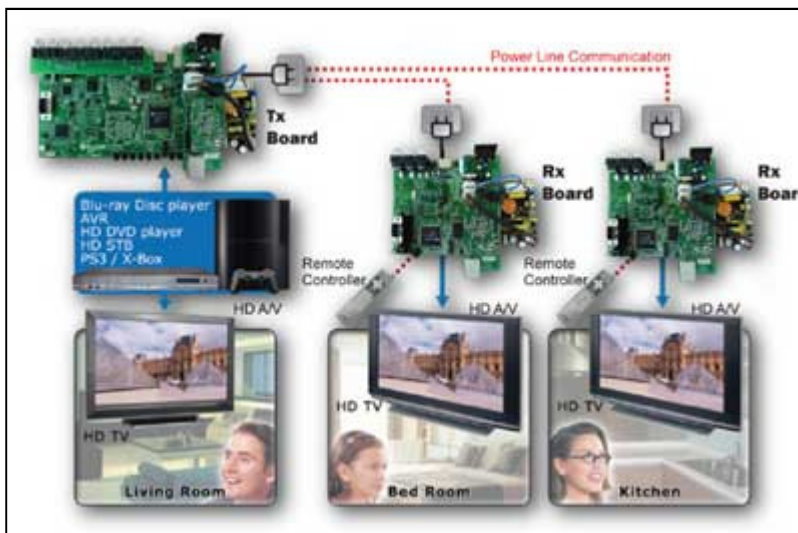
All Telit modules, support Over-the-Air firmware update by means Premium FOTA Management. By embedding RedBend's vCurrent® agent, a proven and battle-tested technology powering hundreds of millions of cellular handsets world-wide Telit is able to update its products by transmitting only a delta file,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

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

For more information on Telit products, please send us an email at [sales@glyn.com.au](mailto:sales@glyn.com.au)



## AverLogic Offers HD Video/Audio Streaming over Power Lines or Ethernet



*H.264 HD Video and Audio Streaming over Power Lines or Ethernet (Transmitter and Receiver)*

AverLogic, available through [GLYN High-Tech Distribution](http://www.glyn.com.au), makes HD video/audio streaming at home or in commercial buildings easy with its modules based on AverLogic AL9M803B Multimedia Network Controller IC.

This two unit system consists of receiver and a transmitter which delivers H.264 HD video and audio from your A/V

equipment (e.g. Blu-ray players, video game consoles) to your compatible HDTV displays anywhere in your home. It uses existing Power Lines or Ethernet lines, eliminating the need for extra wiring. The receiver is easily connected to your HDTV via HDMI cable, while your A/V equipment is connected directly to the transmitter. The source HDMI device can even be controlled remotely using IR remote control.

#### *Features*

- H.264 compression technology
- Supports up to 1920 x 1080 @ 60i or 1920 x 1080 @ 24p input sources
- Uses PLC for wireless streaming
- Supports different PLC technologies including HomePlug-AV, HD-PLC, and UPA
- MPEG-1 layer II Stereo Audio supported, optional 5.1 channel for AC-3 and AAC
- One transmitter works with 2 receivers
- Back channel supports remote IR control
- Supports HDMI and HDCP V1.X
- Optional interfaces: YPbPr, CVBS, RCA stereo audio

*Applications* - Home use HD Video streaming over Ethernet or Power Lines

For more information on AverLogic AL9M803B products, please send us an email at [sales@glyn.com.au](mailto:sales@glyn.com.au)



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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