

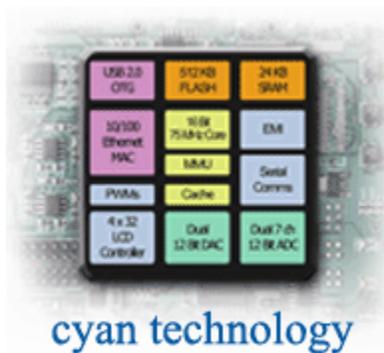


News Highlights – May 2006:

[Microcontroller Manufacturer CYAN TECHNOLOGY Appoints GLYN as its Exclusive Distributor for Australia, New Zealand](#)
[MICRONAS Introduces Its Real-Time Streaming Media Encoder and SoC for IP Camera and Networked PVR Applications](#)
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Microcontroller Manufacturer CYAN TECHNOLOGY Appoints GLYN as its Exclusive Distributor for Australia, New Zealand

[Glyn Ltd](#) has been recently appointed as the sole distributor for [Cyan Technology](#) in Australia and New Zealand. Cyan Technology specialises in the design, sales and support of flexible 16-bit and 32-bit microcontrollers and is based in the UK. Their product development focus is on ultra low power consumption designs with high computing performance, designed in conjunction with world class software development tools.



Cyan's initial product, having already secured a number of significant design wins, is the ultra low powered eCOG1 16-bit microcontroller. The eCOG1 offers a combination of ultra low power operation together with configurable peripherals, built in memory management and interfacing as well as sophisticated features such as on-board ICE and debug. Free design tools include CyanIDE, which incorporates a patent pending Configuration Tool that allows the devices peripherals to be easily reconfigured.

These features make Cyan's eCOG1 microcontroller an ideal solution for new generation products involving communications over Ethernet, Bluetooth or WiFi wireless interfaces. Applications are potentially very broad but the device specifically brings benefit to areas such as remote data telemetry systems, handheld instrumentation, PDA's, EPOS and data recorders as well as integrated communications in cameras, security systems and other intelligent sensors or peripherals. Cyan's 32-bit microcontroller (eCOG2) development is underway and is being designed to run on Linux, making it attractive for portable entertainment products and other high performance applications.

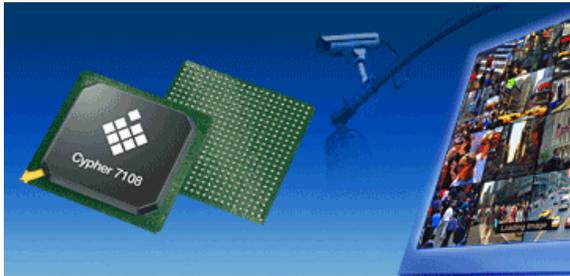
eCOG1 reference designs are now available for key applications such as Internet appliance (uIP and CMX TCP/IP stacks), multiple UARTS (up to 5 UARTs at once), RTOS (PicOS), Asset Tracker (using GPS & GSM/GPRS modules), and CMOS camera and image compression.

CyanIDE, the industry leading toolset with automatic peripheral configuration and an ANSI C Compiler, is downloadable free of charge from Cyan Technology's website. CyanIDE allows a design engineer to use a Cyan microcontroller without resort to instruction manuals containing hundreds of pages and at much lower cost. Working through a graphical user interface on a personal computer, the design engineer can select the functions that the microcontroller is required to perform simply through a click, drag and drop procedure. The software tool automatically generates the code required to configure the microcontroller, virtually instantly and without errors. What can normally take weeks is reduced to a few hours. This integrated development environment then provides support for the writing of the customer's own product application software. Ease of use, faster programming, and automatic generation of code means fewer errors and shorter product development. Customers benefit from lower costs, shorter time to market, longer product lifetimes and increased market share.

- ▣ More information about [Cyan Technology's products](#)



MICRONAS Introduces Its Real-Time Streaming Media Encoder and SoC for IP Camera and Networked PVR Applications



[Micronas](#) (distributor: [GLYN](#)), a leading semiconductor designer and manufacturer of cutting-edge IC and sensor system for consumer and automotive electronics with headquarters based in Germany, is announcing the introduction of its Cypher 7108 System-on-Chip (SoC).

The Cypher 7108 is a highly integrated audio/video streaming media encoder offering real time MPEG-4, MPEG-2, MPEG-1, and H.263 video encoding. Output format includes Microsoft ASF and AVI, Quicktime, DivX, MJPEG and MPEG transport. It also has a programmable audio engine supporting Dolby Digital® (AC-3) and MPEG-1/2 Layers I, II. AES encryption is also provided for content security.

The highly integrated Cypher 7108 SoC is an ideal choice for various applications such as IP cameras for remote monitoring and surveillance, network enabled Personal Video Recorder (PVR), video capture for telecom networks, and video capture for PC/Mac. Aside from security applications, IP cameras can also be used in road traffic monitoring, webcasting, industrial process monitoring, and smart homes.

With the proliferation of inexpensive broadband services and being much cheaper and easier to manage than traditional Closed Circuit TV (CCTV) solutions, IP cameras are expected to become the de facto platform for electronic surveillance. IP camera global sales are projected to exceed US\$1 billion in the next few years according to US-based market analysts Frost & Sullivan.

Cypher 7108 reference design and development kits for IP camera and Network PVR applications are available from Glyn Ltd.

- ▣ More information about [Micronas Cypher 7108](#)



Design Webinar on Ultracapacitor Technology Launched by MAXWELL TECHNOLOGIES



[Maxwell Technologies](#) (distributor: [GLYN](#)) BOOSTCAP Ultracapacitors are an innovative energy storage technology ideally suited for applications needing repeated bursts of power for fractions of a second to several minutes. They pack up to 100 times the energy of conventional capacitors and deliver ten times the power of ordinary batteries. To make power available when needed by the application, the BOOSTCAP ultracapacitor "caches" power from any energy source. This power is

then discharged from the ultracapacitor at rates demanded by the application. The ultracapacitor can be repeatedly charged and discharged at rates optimized for the application.

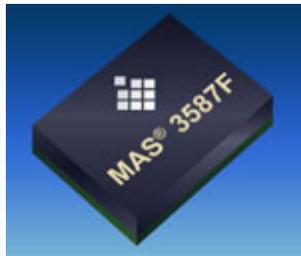
Using BOOSTCAP ultracapacitors for power bursts maximizes the life and efficiency of the system's energy source. The ultracapacitor allows the entire system to be tailored to optimally meet both power and energy requirements. Ultracapacitors can be used in a wide range of applications range including industrial, UPS, telecommunications, power quality, renewable energy, and consumer electronics.

A design webinar on Ultracapacitor technology has been launched by Maxwell Technologies providing guidelines and considerations for using ultracapacitors in application design. Sample ultracapacitor applications from OEM companies such as Automated Meter Readers (AMR) and Heavy Duty Hybrid Drive Systems are also presented.

- ▣ More information about [Maxwell Ultracapacitor Design Webinar](#)



MP3 Audio Encoder/Decoder Now Available from MICRONAS



[Micronas](#) (distributor: [GLYN](#)) is now releasing to the Australian and New Zealand market the MAS[®] 3587F, a single-chip MPEG layer 3 audio encoder/decoder designed for use in memory-based recording/playback applications, e.g. MP3 record/playback equipment. The IC contains a DSP engine with embedded RAM and ROM. It provides flexible digital interfaces for serial and S/PDIF audio data input and output. Also integrated are power management functions and two DC/DC converters for single cell

power supply. A high-quality stereo D/A converter and a stereo A/D converter on chip provide the analog functions required in an advanced portable audio player.

In encoding mode, audio data is input via the integrated A/D converter, serial PCM, or S/PDIF interface. The compressed digital data stream is sent via the parallel interface. In decoding mode, compressed digital data streams are accepted in the parallel or serial format. The audio data is output via the high quality D/A converter. A digital output in serial PCM format and/or S/PDIF format is also provided. Thus, the MAS 3587F provides a true 'ALL-IN-ONE' solution that is ideally suited for highly optimized memory based music recorders.

Additional functionality is achieved via download software (e.g. Micronas SC4 encoder/decoder). SC4 is a proprietary Micronas speech codec technology based on ADPCM. The codec can be downloaded to the MAS 3587F to allow high quality speech recording and playing back at various sampling rates. (Please contact your local Micronas Sales Representative about availability of SC4 downloads).

In MPEG 1 (ISO 11172-3), three hierarchical layers of compression have been standardized. The most sophisticated and complex, layer 3, allows compression rates of approximately 12:1 for mono and stereo signals while still maintaining CD audio quality.

The MAS 3587F is available in the PMQFP64 package.

- ▣ More information about [Micronas MAS 3587F](#)



For more information about GLYN Ltd products, please visit our website at www.glyn.com.au

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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, Wavecom, Infineon, and Displaytech.