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New 2.8" Active OLED from CMEL

CMEL, available through [GLYN High-Tech Distribution](#), has now released its 2.8" active matrix OLED display module (Part No. C0283QGLD-T) to further expand its growing OLED display range.



OLED (Organic Light-Emitting Diode) is a self light-emitting technology composed of a thin, multi-layered organic film placed between an anode and cathode. In contrast to LCD technology, OLED does not require a backlight. OLED possesses high application potential for virtually all types of displays and is regarded as the ultimate technology for the next generation of flat-panel displays.

The use of OLED technology offers the following advantages for flat-panel displays:

1. A simplified manufacturing process compared to TFT-LCD
2. Self-emitting light, in contrast to the required backlight for TFT-LCD
3. High luminosity
4. Lightweight and thin (less than 2 mm)
5. Capable of wide viewing angles (~180°)
6. High contrast ratio (up to 10,000:1)
7. Low operating voltage and power consumption
8. Excellent response time (~ μ second level)
9. Wide range of operating temperatures (-40°C to 85°C)

OLEDs are ideal for hand-held applications due to their low energy consumption, light weight, small dimensions, and the broad temperature range. Currently the consumer market such as mobile phones and MP3 players are still the main application areas of these OLED displays but OLEDs used in industrial applications are now getting quite popular due to the above advantages.

CMEL 2.8" Active Matrix OLED Display Features

Driving Mode: Active Matrix

Colour Mode: Full Colour (262K colour)

Driver IC: S6E63D6, COG Assembly

Interface:

1. MPU i80-system 18-/16-/9-/8-bit bus interface
2. MPU i68-system 18-/16-/9-/8-bit bus interface
3. Serial data transfer interface
4. RGB 18-/16-/6-bit bus interface (DOTCLK, VSYNC, HSYNC, DE, DB17-0)

For more details about CMEL OLED display products, please send us an email at sales@glyn.com.au



GLYN Introduces GSW1 GSM/GPRS Card

GLYN introduces the GSW1 card, a complete GSM/GPRS modem solution based on the Telit GE864-QUAD PY modem, and is an ideal for low to medium volume M2M application. The GSW1 comes with PYTHON scripting where customer application programs can be stored inside the modem, making the terminal a complete customer solution. The RoHS-compliant GSW1 also has a board-to-board 2.54mm connector for easy interfacing. The GSW1 is directly controlled by a standard serial RS232 interface and offers a board power supply voltage range of 5-14 Vdc.



Product Features

- Quad-Band EGSM 850/900/1800/1900 MHz
- Output Power Class 4 (2W) 850/900MHz, Class 1 (1W) 1800/1900MHz
- AT commands according to GSM 07.05, 07.07 and proprietary Telit AT commands
- RoHS compliant
- Supply Voltage Range: 5-14 Vdc
- Power Consumption: power off: 26uA, idle: 4 mA, GPRS(max): 700 mA
- Dimensions: 52 x 40 x 6 mm
- Weight: 35 g
- Temperature range: -20 to +70°C
- 2.54mm pitch connector
- 2 General Purpose I/O
- 9 pin board connector for UART communication 300 to 115,000 bps
- MMCX female, 50 ohm connector for GSM
- PYTHON script interpreter engine, 3 MB non-volatile memory for user scripts and data and 1.5 MB RAM for Python script engine usage

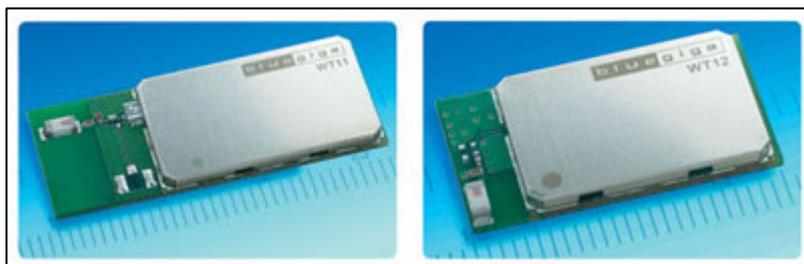
For more details about the GSW1, please send us an email at sales@glyn.com.au



Bluegiga Releases iWRAP 3.0 Beta Firmware for WT11 and WT12 Bluetooth Modules

An evaluation version of new iWRAP firmware for Bluegiga's WT11 and WT12 Bluetooth modules is now available via special request from [GLYN High Tech Distribution](#). iWRAP 3.0 beta will introduce several additional functions such as Bluetooth HID and DI profiles and remote configuration over a Bluetooth link.

WT11 and WT12 are Class 1 and Class 2 respectively, next-generation, Bluetooth 2.0+EDR (Enhanced Data Rate) modules. Both modules introduce three times faster data rates compared to existing Bluetooth 1.2 modules even with lower power consumption! WT11 and WT12 are highly integrated and sophisticated Bluetooth modules, containing all the necessary elements from Bluetooth radio to antenna and a fully implemented protocol



stack. Therefore WT11 and WT12 provide an ideal solution for developers who want to integrate Bluetooth wireless technology into their design with limited knowledge of Bluetooth and RF technologies.

iWRAP 3.0 beta will feature the following Bluetooth profiles:

- Bluetooth Serial Port Profile (SPP)
- Bluetooth Hands-Free Profile (v. 1.5) (HFP)
- Bluetooth Hands-Free Audio Gateway Profile (v. 1.5)
- Bluetooth OBEX Object Push Profile (OPP)
- Bluetooth Human Interface Device (HID) Profile (keyboard)
- Bluetooth Device ID Profile (DI)

Other new features in iWRAP 3.0 beta:

- Over-the-Air (OTA) configuration
- Pairing with "*PAIR {addr}*" command
- Piconet clock state reading with "*CLOCK {link_id}*" command
- Enabling Bypass UART enabling with iWRAP commands
- Remote device identification with "*IDENT {addr}*" command

HFP and HFP-AG profiles offer full-duplex GSM quality audio over a Bluetooth link plus call and SMS control with AT commands. The new profile support makes iWRAP ideal for all kinds of audio applications, such as automotive audio systems, point to point audio applications, audio accessories and systems where simultaneous audio and data transfer are needed.

HID profile will offer keyboard emulation over a Bluetooth link, allowing one to use iWRAP as a wireless keyboard for controlling devices such as PCs, PDAs and mobile phones over a Bluetooth link.

OTA feature will enable one to change iWRAP settings and execute iWRAP commands wireless over a Bluetooth link and there is no need for physical access.

iWRAP 3.0 can be requested by contacting GLYN at sales@glyn.com.au. iWRAP 3.0 will be officially released within Spring 2007.



Micronas Designs Industry's Smallest, Fully Integrated Audio Video Decoder for Digital Media Devices

Superior audio and video quality chips built from flagship IP products

Micronas, a leading supplier of innovative, application-specific IC system solutions for consumer electronics and available through [GLYN High-Tech Distribution](#), announced the

availability of an advanced and fully integrated audio/video front-end decoder (AVF 49x0B) well suited for consumer devices such as Personal Video Recorders (PVRs), DVD recorders, set-top boxes, PC-TV applications and video projectors.

The AVF 49x0B analogue video and audio decoder provides an extensive set of features and functional integration at very low power consumption. The AVF 49x0B supports worldwide analogue broadcast TV video decoding and analogue video input sources, including composite video, S-Video, component video, and SCART RGB. The video data path features superior quality with its 10-bit front-to-back video processing capability and up to 8 video inputs that can be flexibly assigned to the composite and component video processing paths.

The AVF 49x0B masters all worldwide audio broadcast TV standards with its stereo audio decoder for BTSC/SAP, A2, NICAM, AM, and FM by interfacing directly with a wide range of tuners via standard sound-IF input. An integrated high quality stereo audio ADC provides a set of baseband audio inputs to complete the typical application input requirements. The



integrated universal VBI data slicer supports data formats such as Teletext, closed captioning, CGMS, XDS and many more formats. Combined with the choice of providing the VBI data either by merging it into the ITU-656 video output stream or via the I²C serial command interface makes the chip easy to integrate into virtually all platforms. The significant benefits of this offering include a tiny 9x9 mm² 64 pin QFN package; the very small footprint ideally designed for mobile

designs, plus low power consumption (below 300mW) with power management support. The AVF 49x0B also delivers exceptional audio quality and supports enhanced high definition (HD) digital video formats of up to 1080i resolution through its analogue component video inputs. Applications like USB TV designs can now offer full-featured audio and video decoding in popular small stick sizes.

The audio-video decoder supports NTSC, PAL and SECAM standards, and at the same time, through its 3-D comb filter option, enables very high quality Y/C separation for composite video sources from either TV tuners or legacy consumer devices.

“The growing PVR market shifts from analogue to hybrid, paying tribute to the emerging digital TV standards. Analogue cable TV broadcast remains to be widely deployed. Therefore analogue audio and video decoding remains a standard feature and continues to be in strong demand,” according to Micronas. “With quality at the forefront of every design movement at Micronas, the AVF 49x0B addresses the market requirements for performance, size, quality, integration, and system cost.”

With all the new digital products entering the market today, customers are requiring quick and easy setup and operation. Developers are responding with solid performance and speedy development cycles, and AVF 49x0B fits this requirement with its easy to integrate control interface.

The new AVF 49x0B chips, in either the PQFN64 pin or MQFP128 pin package, provide leading-edge functionality and performance and are ready for production now.

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





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