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New Addition to GLYN Sales Range: OLED Displays from CMEL

Chi Mei Group from Taiwan, a leading manufacturer of Displays, has chosen GLYN GmbH & Co. KG as their distribution and support partner for OLED-Displays (Organic Light-Emitting Diode) in Europe, Switzerland, Australia and New Zealand.

Chi Mei EL Corporation (CMEL), a subsidiary of Chi Mei Group, specialises in the production of small and medium-sized OLED panels. Well-known cell phone manufacturers are among the company's key customers.

CMEL focuses on Active Matrix OLED products (AM-OLED) and produces these displays in sizes ranging from 2" to 2.8". A new 4.3" version will go into production this year.

Currently the consumer market is still the main application area of these OLED displays. Modern high-end mobile phones and MP3-players work with main and sub displays based on OLEDs. They are increasingly being used in industrial applications. Unlike LCD technology, OLEDs do not need backlights and offer higher contrasts combined with wide viewing angles (~180°), a high contrast ratio (up to 10,000:1) and excellent response time.

OLEDs are ideal for hand-held applications due to their low energy consumption, light weight, small dimensions (2mm thin) and the broad temperature range (-20° to +75°C).

Model No.	Panel Size (Diagonal)	Resolution	Color	Active Area(mm)	Outline Dimension (mm)	Color Saturation (NTSC)	Bonding Type	MP Status
C0200QILB-C	2.0	176xRGBx220	262K Colors	31.68x39.96	38x49	>60%	COG	available
C0220QGLA-T	2.2	240xRGBx320	262K Colors	33.84x45.12	38.54x54.41	>60%	COG	available
C0240QGLA-T	2.4	240xRGBx320	262K Colors	36.72x48.96	40.52x57.23	>60%	COG	available
C0280QGLA-C	2.8	240xRGBx320	16.7M Colors	43.20x57.60	50.0 x 68.0	>60%	COG	available
P0430WQLA-T	4.3	480xRGBx272	16.7M Colors	95x53.9	102.04x63	>60%	COG	Under development

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

Cyan's New eCOG1X USB Core Offers USB2.0 Peripheral, Host and On The Go Functionality Without an External PHY

Cyan Technology, available through GLYN High-Tech Distribution, launches a functional USB core to its family of low-power, feature rich 16-bit microcontrollers, the eCOG1X range. With minimal external components the eCOG1X USB device can act as a USB2.0 full-speed (12Mbs) device in host, peripheral or On The Go (OTG) modes. High-speed (480Mbs) data rates can also be achieved by adding a low-cost external ULPI PHY. The eCOG1X is the only 16-bit microcontroller on the market today that can achieve this combination of USB modes and data rates.
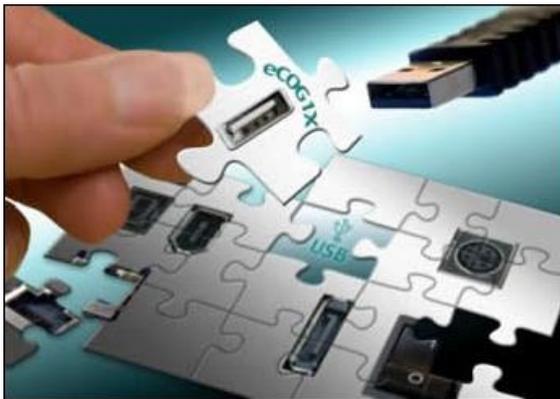
Powerful features in the eCOG1X USB core result in a large reduction in the amount of code needed to operate the device. A library of support software for numerous USB device classes and common peripherals is provided by Cyan without charge. These libraries distance the user from the complex low level USB stack required to operate the chosen device, and replace it with high level routines designed for easy understanding and integration.

Using Cyan's CyanIDE integrated development environment, the USB core is included by drag and dropping it into the footprint image of the chosen chip variant. The software library supporting the chosen device is automatically added to the project, leaving very little work for the user.

Cyan's ability to support OTG mode is particularly noteworthy. The eCOG1X USB core can detect whether it is connected as a host or peripheral device, depending on which plug is inserted. The operation is dynamic, and subsequent re-configuration can not only be initialised by plugging in the relevant connector type but it may be switched back and forth under software control as the peripheral requests to become the host.

OTG is already used in PDAs and mobile phones but is also of interest in industrial applications, such as data logging and inventory control systems. The major benefits apply where a handheld or mobile unit connects at different times to a host in one place and peripheral units such as printers, flash disks and remote data monitors. In this scenario, one single standard interface connection can be used for all functions, removing the need for multiple hardware interfaces.

Dr. Paul Johnson, President and CTO at Cyan Technology comments: "Many MCUs have USB protocol controllers integrated on chip but most only support USB as a peripheral device, relying on an external PHY for operation. Cyan's USB core integrated everything to minimise time spent implementing peripheral or OTG USB functionality. This results in smaller memory requirements, faster time to market and lower power consumption for applications using the device, aided by the ease of use delivered via the CyanIDE graphical configuration tool."
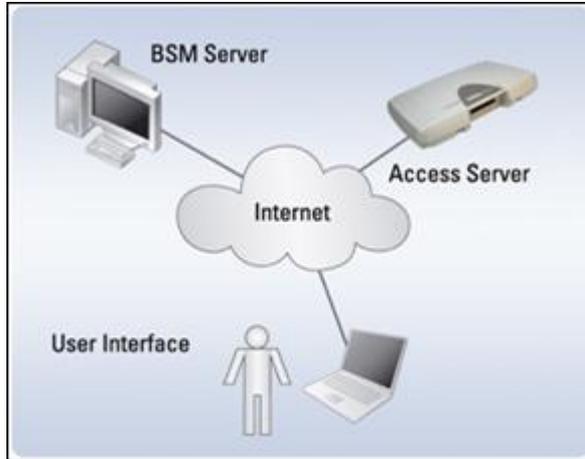
There are four variants of the eCOG1X chip featuring the USB core - the eCOG1X4A5 and eCOG1X5A5 (68-pin QFN), the eCOG1X14B5 (100-pin QFN) and the eCOG1X14Z5 (208-pin BGA). All chips are available now.

For more details about Cyan eCOG1X MCUs, please send us an email at sales@glyn.com.au

Bluegiga Releases Web-Based Remote Management Platform for Bluetooth Networks

Bluegiga releases its Bluegiga Solution Manager (BSM), a web-based remote management and monitoring platform for its Bluetooth Access Servers. Bluegiga's Access Servers enables Bluetooth networking between multiple devices and networks and serves up to 21 simultaneous Bluetooth connections with the latest Bluetooth 2.0+EDR standard (3Mbps). By using BSM, you can simultaneously upgrade, monitor and configure a large number of Bluegiga Access Servers, instead of configuring each device one-by-one.

Key features:

- Provides remote management of simultaneous Bluegiga Access Servers
- Easy-to-use graphical user interface
- Can be used over LAN, GPRS, or any other Internet connection type
- Communicates by using secure, encrypted network protocols
- Works seamlessly trough firewalls
- Enables remote upgrades of Access Server software and content
- APIs available enabling total customization of look and feel
- User permissions can be tailored to provide different levels of user accounts
- Enables management for the Bluegiga ObexSender application

Bluegiga Solution Manager makes it possible to manage deployments of Bluegiga Access Servers from a single point by a heterogeneous group of administrators and users. BSM also enables content management for the Bluegiga ObexSender application. BSM is designed for both companies looking for a ready-made management tool, and companies needing a customizable platform for tailoring the user interfaces and re-branding the system. BSM is available as a hosted service or as a CD-ROM delivery for customers installing the system on their own server hardware.

BSM Software together with Bluegiga Access Server is targeted at system integrators, developers and original equipment manufacturers wanting to deploy a secure, cost effective, low power consuming wireless network for Bluetooth-equipped devices.

For more details about Bluegiga BSM and Access Server, please send us an email at sales@glyn.com.au

Mitsubishi Electric Introduces 3.5 GHz band 30 W GaAs FET for WiMAX Base Station Power Amplifier

WiMAX is expected to become the standard in high-speed broadband wireless communication systems that provide higher mobile data transmission and expanding local wireless networks. Demand is rising for low-current, low-distortion devices in order to build WiMax base stations with a more compact, high-performance design as well as low installation and running costs.
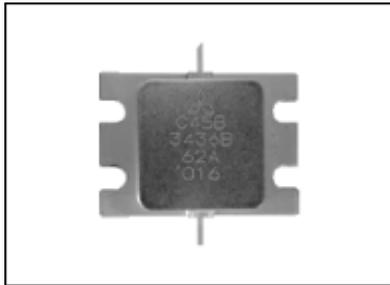
In response to this need, Mitsubishi Electric has developed an internally matched power GaAs FET MGFC45B3436B by utilizing a newly developed FET chip and an internal independently matched circuit to achieve lower distortion levels during low-current operation. This newly developed device will make WiMax base stations more compact and will improve operational as well as cost performance.

Features:

1. Improved distortion levels during low-current operation
The new internal independently matched circuit developed by factoring in harmonic components and an FET chip optimized for each frequency band reduce problems caused by variations in wafer processing and assembly. The low-current low-distortion design gives the device an adjacent-channel leakage power ratio (ACPR) of -45 dBc, which is 8 dB lower than Mitsubishi's other models

2. Industry standard metal-ceramic packaging
Mitsubishi Electric uses the same metal-ceramic package used in their previous models with the same exact dimensions to make replacing existing amplifiers easy.

Mitsubishi Electric will add product variations for different frequencies (MGFC45B3336C, MGFC45B3538C, MGFS45B2527C, MGFS45B2325C) and a high power version (MGFC47B3436C) to its existing line.

For more details about Mitsubishi Electric GaAs FET for WiMAX applications, 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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