

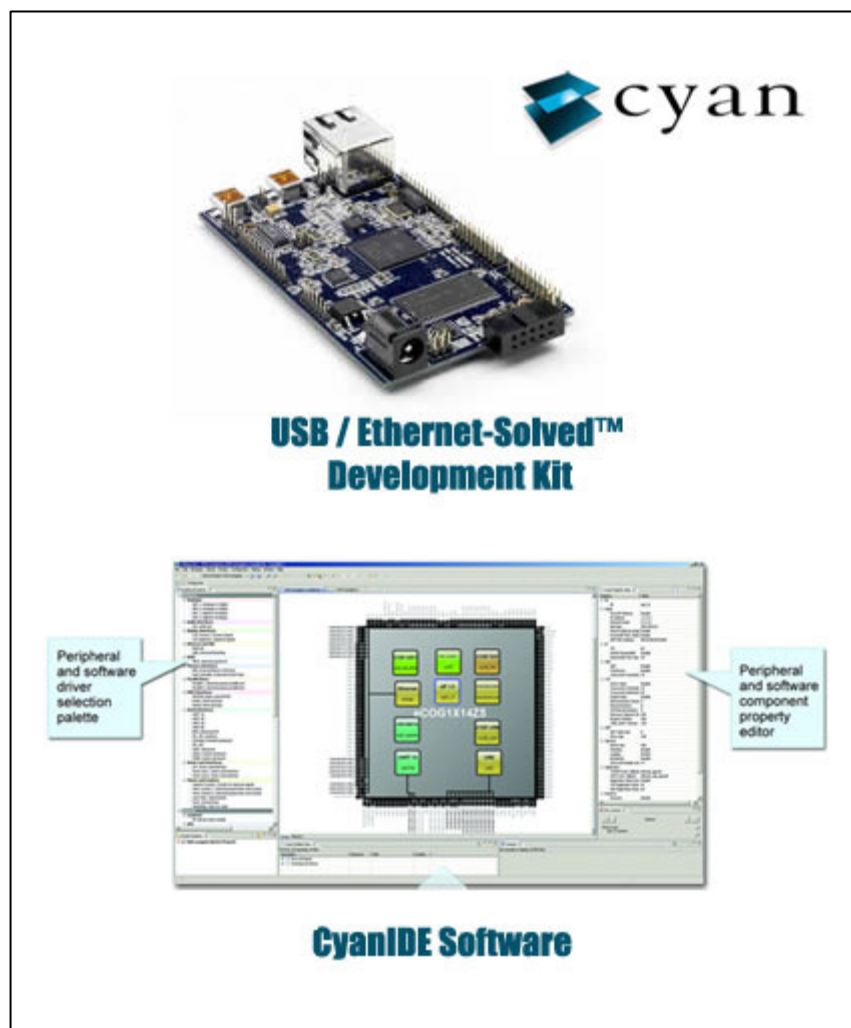
## News Highlights – Issue 28:

[Cyan Introduces USB / Ethernet-Solved™ Development Kit](#)  
[USB Security Dongle Ideal for Providing Application Software and Physical System Access](#)  
[LCD Display Controller Family from AverLogic](#)  
[Vinculum USB Host Controller Programmer aids Flash ROM programming](#)

### Cyan Introduces USB / Ethernet-Solved™ Development Kit

Cyan, available through [GLYN High-Tech Distribution](#), introduces the USB / Ethernet-Solved™ Development Kit which allows projects based around USB and Ethernet to be created quickly and easily. It builds on the USB-Solved™ and Ethernet-Solved™ frameworks to give complete solutions in a matter of minutes. Add USB or Ethernet functionality to an existing embedded system, or create new solutions using this development kit as a foundation.

Application areas include Industrial communications eg. web server link to sensors, serial to USB or Ethernet conversion, Ethernet connection to USB hosted peripherals. Products requiring large quantities of Flash memory and high performance analogue to digital or digital to analogue conversion are particularly well served.



The image displays the Cyan USB / Ethernet-Solved™ Development Kit, a blue printed circuit board (PCB) with various components, including a USB port, an Ethernet port, and a microcontroller. The Cyan logo is visible in the top right corner. Below the PCB, the text "USB / Ethernet-Solved™ Development Kit" is written in blue. At the bottom, a screenshot of the CyanIDE Software interface is shown, featuring a central component palette and a peripheral and software component property editor. The text "CyanIDE Software" is written in blue below the screenshot.

### *Key Features:*

- Cy-Solved solution for Ethernet and USB embedded applications.
- Ready-to-go eCOG1X microcontroller project examples templates including webserver utilising FAT file system USB memory stick.
- Easy customisation using free of charge CyanIDE®2 tools.
- Drag and drop software components, including USB and Ethernet stacks.
- Includes unrestricted CyanIDE 2 IDE, compiler, toolchain and high speed eICE dongle.

### *Board Features:*

- eCOG1X14Z5 microcontroller:
  - 512KB flash
  - 24KB SRAM
  - 4x UART
  - 12-bit 200ksps ADC
  - 12-bit DAC
  - 10/100 Ethernet
  - USB 2.0 compatible host/slave/OTG peripheral.
- 16MB SDRAM.
- Ethernet PHY and RJ45 connector.
- USB connectors for use with internal PHY (LS,FS) and external PHY (HS).
- RS232 Buffer 1x channel.

### *Example Project Templates provided for:*

- Webserver which serves pages over Ethernet to a standard browser that have been stored on a standard external USB memory stick. The pages can be updated remotely using FTP.
- Data logging from an analogue channel to a USB flash disc.
- DNS Resolver.

### *Software Components:*

- Ethernet stack, with
  - TCP/IP
  - UDP
  - ICMP (Ping)
  - DHCP Client
  - HTTP Web Server
  - Telnet Server
  - FTP Server.
- USB stack, with:
  - Keyboard device
  - Audio device
  - CDC Serial (Q3 2008)
  - MSD device
- FAT File System.
- CYDF Driver Framework.

### *Rapid code development using CyanIDE 2:*

CyanIDE 2 provides an Eclipse based software development environment with production quality gcc based toolchain. Using the CyanIDE Configurator, software components and hardware modules are selected using drag & drop and configured with an easy to use GUI based property editor.

For detailed technical data, please visit Cyan website at [www.cyantechology.com](http://www.cyantechology.com)

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



## USB Security Dongle Ideal for Providing Application Software and Physical System Access



Future Technology Devices International (FTDI), available through [GLYN High-Tech Distribution](#), recently announced the availability of its USB-Key security device. Using a unique, hard-coded identification number, the device can interface to any USB host or hub to provide application software access control (security dongle) or as part of a more sophisticated key-based physical access control. During manufacture, the USB-Key has a unique FTDIChip-ID number burnt into

it. This number is only readable over the USB interface, making it ideal for PC or embedded security developments. The USB-Key, compatible with USB 1.1 and USB 2.0 specifications, derives its power from the USB interface and does not require any external supply or battery.

In addition to providing a unique identification number, a user writeable EEPROM area is available to allow further encryption techniques. Examples include reading the FTDIChip-ID, further encrypting it and writing it back to the EEPROM. By using this approach, industry standard encryption techniques such as DES, AES, or Blowfish could be implemented.

Also available is an ActiveX control, SafeGuard-IT, which can utilise the FTDI-ChipID feature of the USB-Key to provide asymmetric public and private key encryption. Encrypted information based on the FTDIChip-ID, the private key and an optional password can be programmed back into the USB-Key's integrated EEPROM. This provides an easy to deploy method of software protection with a high level of security. With this approach, SafeGuard-IT protected software packages need only be compiled once and can then be distributed with just two additional files to decrypt the information, the public key and the SafeGuard-IT DLL.

FTDIChip-ID drivers, supporting all popular operating systems, together with further programming documentation and code examples are available for free download at <http://www.ftdichip.com/Projects/FTDIChip-ID.htm>

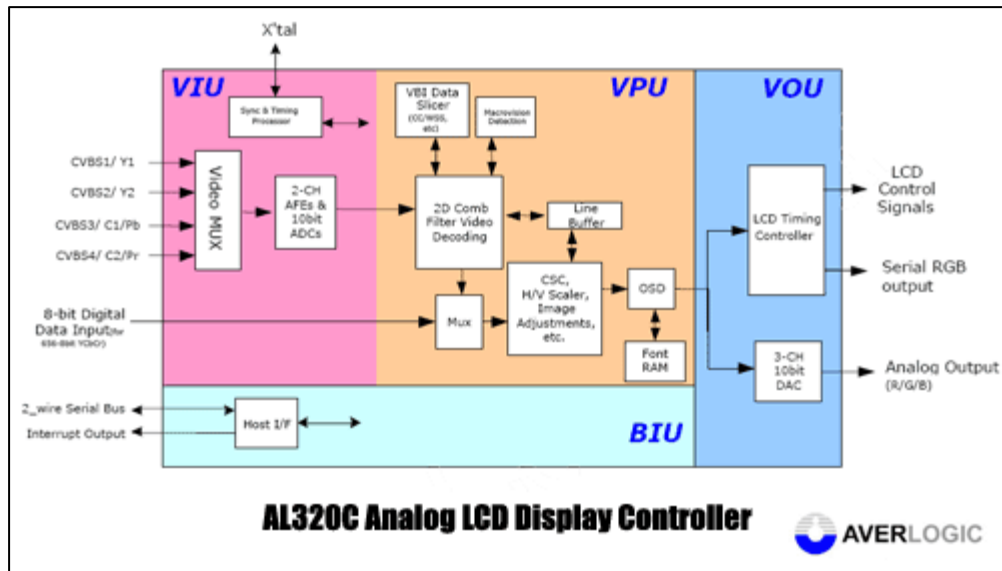
The SafeGuard-IT ActiveX control and the SafeGuard-IT DLL file can be downloaded free of charge at <http://www.ftdichip.com/Projects/SafeGuard-IT/SafeGuard-IT.zip>

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



## LCD Display Controller Family from AverLogic

AverLogic, available through [GLYN High-Tech Distribution](http://www.glyn.com), introduces its AL320C Analog LCD Display Controller which is ideal for applications such as LCD Game Screen (PS2/Mini-PS2), Automobile Camera & DVR system, PMP (Personal Media Player), In-Car TV & Entertainment System, Portable TV/DTV, and Portable DVD Player.



### Functional Description

#### Analog Input

- \* Support multiple analog video inputs
- \* Support CVBS, S-Video, and YPbPr inputs
- \* Support 10 bit ADC, AGC, and ACC
- \* Support Auto Multi-Standard NTSC/PAL/SECAM mode detection
- \* Support Weak & Non-Standard Signal mode detection
- \* Adaptive 2D Comb-Filter Video Decoding for Y/C separation

#### Digital Input:

- \* Support ITU-R BT-656 Digital Input

#### Video Input:

- \* Closed Caption/ V-Chip/ WSS/ WSS-J VBI decoding
- \* Macrovision copy protection detection
- \* Contrast/ Brightness/ Hue/ Saturation adjustment
- \* Sharpness adjustment for Edge enhancement
- \* Digital Chrominance Transient Improvement (DCTI)
- \* YCbCr to RGB Color Space Conversion
- \* Programmable H/V Up & Down Scaling
- \* 4:3 to/ from 16:9 conversion
- \* Programmable 3-Channel Gamma Correction

#### OSD

- \* Built-in internal OSD 4K bytes RAM for programmable OSD function
- \* Support up to 4 OSD colors
- \* Support OSD Blinking & Blending
- \* Support Programmable OSD Window Position
- \* Support Programmable OSD Window size

#### Analog Output & Tcon

- \* Support Analog LCD panels: 960x234, 1200x234, 1440x234, 1920x234, etc.

- \* Low Power 3-CH DACs for Analog RGB Output
- \* Programmable TCON for various Analog LCD panels
- \* Support Image Mirror and Flip Functions

Aside from the AL320C which is in full production, AverLogic is also planning on releasing two other LCD Display Controllers (AL321B and AL330B) in the second half of 2008, targeting users of sub 10" panels and OLEDs. All three panels feature integrated decoders and operating temperature of -20/+85. The 321B and 330B also integrate an 8051 uC.

320C demo units (7" LCD) are available now. There is very limited availability of 320C+OLED demo units. 321/33 demo units will be available in Q3/Q4.

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



### Vinculum USB Host Controller Programmer aids Flash ROM programming



Future Technology Devices International Limited (FTDI), available through [GLYN High-Tech Distribution](http://www.glyn.com.au), announces the release of the VPROG-1 programmer. Designed specifically to program FTDI's Vinculum host controller product range including VNC1L-1A and evaluation modules, the programmer allows quick and easy writing of data to the device's Flash ROM. The programmer does not require an external power supply; drawing its power from the USB bus of a connected PC. The unit can be used

to program individual Vinculum ICs or, in conjunction with a suitable USB hub, up to 10 units can be ganged together.

For programming individual VNC1L-1A ICs\*1 a plug-in LQFP48\*2 adaptor is required. In addition using a ZIF40 adaptor\*3, FTDI's VDIP1\*4 and VDIP2 evaluation modules can be quickly and easily programmed. Four LED indicators provide indication of power, USB host connection status, and device programming success or failure.

The VNC\_PROG software, running under the Microsoft Windows operating system, provides a simple graphical user interface (GUI) for the VPROG-1. The software allows the user to check the number of devices attached to the programmer(s), then select and program them. The application can then verify that the programming operation has been successfully completed.

A USB 'A' to 'mini B' cable is included in the VPROG-1 package.

#### Notes:

\*1 Further information on the VNC1L-1A IC can be found at:

[http://www.vinculum.com/prd\\_vnc1l.html](http://www.vinculum.com/prd_vnc1l.html)

\*2 FTDI part code VPROG-1-S-LQFP48

\*3 FTDI part code VPROG-1-S-ZIF40

\*4 Further information on the VDIP modules can be found at:

[http://www.vinculum.com/prd\\_vdip1.html](http://www.vinculum.com/prd_vdip1.html)

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



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