

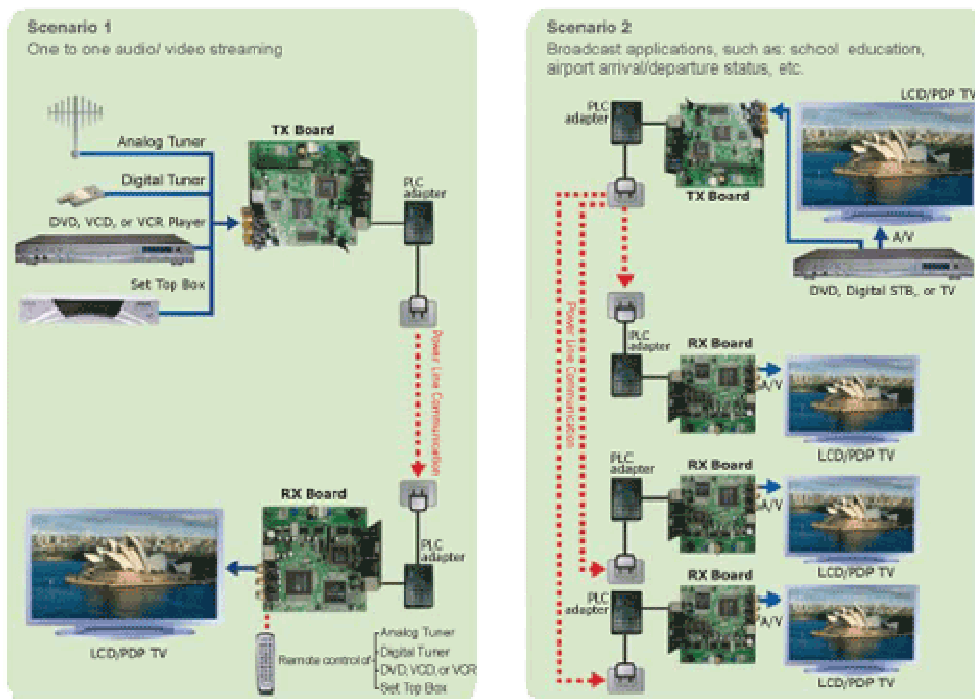
News Highlights – Issue 24 (March 2008):

- [AverLogic Announces Home A/V Networking Reference Designs](#)
- [High Quality TFT LCD Displays from 1.8" to 7.0" Now Available from EDT](#)
- [Cyan Launches Entry-level MCU Targeted at High volume, Low Cost Applications](#)
- [New Family of Hall-Effect Sensors from Micronas Integrates Microcontroller and Digital Interfaces](#)

AverLogic Announces Home A/V Networking Reference Designs

AverLogic Technologies, the video processing IC and specialty memory design company and available through [GLYN High-Tech Distribution](#) recently announced the launch of "Home Audio/Video (AV) Networking", "Home A/V Network plus Ethernet Extension", and "Audio Sender" reference designs, the innovative digital home audio/video streaming solutions using existing power line infrastructure.

Application Scenario



With AverLogic audio/video streaming solutions through a home network using existing power wiring infrastructure, you can view video in different locations in the house. AverLogic's Home A/V Networking reference designs, utilizing Power Line Communications (PLC) technology, can distribute the A/V contents of DVD/VCD/VCR players, Digital Set-Top-Boxes (STB), to LCD/ PDP TVs from one room to the other rooms. Each reference design includes a transmitter module (TX module) and a receiver module (RX module). Both modules have Ethernet interface which can be connected to major brands of Ethernet to PLC bridges to demo the home-networking via PLC. The second reference design comes with embedded PLC adapters in the TX and RX modules. Both these solutions are enabled by AverLogic's chipset consisting of AV network controllers, AL9M802, an MPEG-4/2 Encoder, AL9V576, and a video decoder, AL242.

The Home AV Networking reference design can distribute the A/V signals plus Ethernet data networking via PLC. IR blaster function enables users to control the video source

devices connected to TX unit. It co-works well with major brands of PLC controllers, and has four reference designs of PLC sub-modules, each for a different PLC standard. It also illustrates co-existence of data and AV streams in the same power line environment. AverLogic's proprietary Dynamic Bandwidth Management (DBM) technology ensures smooth video streaming quality, even under noisy power line environment.

Other than the PLC A/V streaming solution, AverLogic has also recently unveiled its reference design of Audio Sender solution. The reference design allows sending DVD/ CD player, MP3, Audio Sender, i-Pod, and Digital Audio Broadcast (DAB) sources to speakers, and streams uncompressed audio files, whereas the audio resolution can be up to 24 bits, and sampling rate up to 192KHz. AverLogic's new reference design for Audio Sender guarantees stable audio streaming by using dynamic bandwidth management.

For further information on AverLogic A/V products, please send us an email at sales@glyn.com.au



High Quality TFT LCD Displays from 1.8" to 7.0" Now Available from EDT



Stunning graphics on high quality active matrix LCDs are now affordable more than ever with TFT LCD displays from EDT. EDT TFT displays range from 1.8" to 7.0" with resolution ranging from 176 (RGB) x 220 up to 800 (RGB) x 480. Various options such as touch panel, DC/DC converter, high brightness, RGB interface, MCU interface and QCIF are available.

For datasheet and pricing on EDT TFT products, please send us an email at sales@glyn.com.au with the part numbers you are interested in as shown on the table below.

Part Number	Diagonal Size	Display Format	Other Features
ET018003DMU	1.8"	176 (RGB) x 220	QCIF
ET020002DMU	2.0"	240 (RGB) x 320	
ET020003DMU	2.0"	176 (RGB) x 220	QCIF
ET022002DMU	2.2"	240 (RGB) x 320	
ET022003DMU	2.2"	240 (RGB) x 320	
ET024001DMU	2.4"	240 (RGB) x 320	RGB interface
ET024002DMU	2.4"	240 (RGB) x 320	MCU interface
ET024002DHU	2.4"	240 (RGB) x 320	With Touch Panel
ET028000DMU	2.8"	240 (RGB) x 320	
ET028000DHU	2.8"	240 (RGB) x 320	With Touch Panel

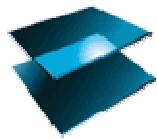
ET032000DM9	3.2"	240 (RGB) x 320	9 o'clock viewing direction
ET032001DH9	3.2"	240 (RGB) x 320	With Touch Panel
ET035006MDM6	3.5"	320 (RGB) x 240	
ET035006MDH6	3.5"	320 (RGB) x 240	With Touch Panel
ET035007MDM6	3.5"	320 (RGB) x 240	
ET035007MDH6	3.5"	320 (RGB) x 240	With Touch Panel
ET035008MDM6	3.5"	320 (RGB) x 240	
ET035008MDH6	3.5"	320 (RGB) x 240	With Touch Panel
ET035008DMU	3.5"	320 (RGB) x 240	
ET035008DHU	3.5"	320 (RGB) x 240	With Touch Panel
ET035009DM6	3.5"	320 (RGB) x 240	
ET035009DH6	3.5"	320 (RGB) x 240	With Touch Panel
ET043000DM6	4.3"	480 (RGB) x 272	
ET043000DH6	4.3"	480 (RGB) x 272	With Touch Panel
ET057002DM6	5.7"	320 (RGB) x 240	High Brightness
ET057002DH6	5.7"	320 (RGB) x 240	High Brightness + Touch Panel
ET057003DM6	5.7"	320 (RGB) x 240	High Brightness + DC/DC Converter
ET057003DH6	5.7"	320 (RGB) x 240	High Brightness + DC/DC Converter & Touch Panel
ET057005DMU	5.7"	640 (RGB) x 480	
ET057005DHU	5.7"	640 (RGB) x 480	With Touch Panel
ET057007DMU	5.7"	640 (RGB) x 480	With DC/DC Converter
ET057007DHU	5.7"	640 (RGB) x 480	With DC/DC Converter + Touch Panel
ET057008DMU	5.7"	640 (RGB) x 480	Without mounting lugs
ET057009DMU	5.7"	640 (RGB) x 480	Without mounting lugs + DC/DC Converter
ET070000DM6	7.0"	800 (RGB)	With DC/DC

		x 480	Converter
ET070000DH6	7.0"	800 (RGB) x 480	With DC/DC Converter + Touch Panel



Cyan Launches Entry-level MCU Targeted at High volume, Low Cost Applications

Cambridge-based semiconductor company Cyan, available through [GLYN High-Tech Distribution](#), announces the launch of the eCOG1XE01A6, an entry-level subset of Cyan's eCOG1X microcontroller (MCU) family.



cyan

The eCOG1XE01A6 is complementary to Cyan's existing products. For example, in support of RF-Solved™ which provides a user with a customisable ISM band solution ideal for use in the intelligent sensors and

automatic meter reading markets, the eCOG1XE01A6 is priced for use in the high volume and cost sensitive slave nodes.

The eCOG1XE01A6 offers a 64Kbyte Flash memory and retains the most commonly used peripheral blocks of the eCOG1X family. An internal Harvard architecture with 8Kbytes of Static RAM delivers high performance. The chip is fully supported by CyanIDE®, a free, class leading Integrated Development Environment which includes automated peripheral configuration and an unrestricted ANSI C Compiler. The eCOG1XE01A6 incorporates a number of power saving features including a highly flexible peripheral clock set up and sleep mode.

Paul Chaplin, VP of Sales EMEA comments: "The eCOG1XE01A6 is a new low cost addition to our MCU product portfolio. The market for intelligent sensors and automatic meter reading applications is very active. RF-Solved as a ready to go solution can now deliver its benefits of propagation through obstacles such as buildings based on a low cost node powered by the eCOG1XE01A6."

The eCOG1XE01A6 is available in a 68-pin QFN package, comprehensively supported by a low cost development board and high speed programming adaptor, along with a new release of CyanIDE (version 1.4.4). The unit selling price for the eCOG1XE01A6 is **US\$3.00** in volume.

Here are the main features of the eCOG1XE01A6:

- 0 to 24MHz 1.8V CPU core
- Built in Emulator (eICE)
- Low power operation
- 64Kbytes FLASH
- 8Kbytes SRAM
- Instruction cache
- Memory Management Unit
- Code security feature
- Fast Vectored Interrupts
- 2 x DUARTs
- SPI
- I2C
- Multi Purpose Timers
- Clock timer
- 2 x PWM timer
- Capture timer with 2 inputs
- Watchdog Timer
- Dual 12-bit 200ks/s SAR ADC
- 2x2 channel analogue multiplexer
- Temperature Sensor
- Power-On Reset
- 20 GPIO pins/peripheral I/O
- 8MHz and 32kHz crystal oscillators
- 24MHz clock from watch crystal
- Internal relaxation oscillator
- 3.3V supply, 1.8V core
- 68 pin QFN package
- Operating temperature range -40°C

- 2 x counter / timer

to +85°C

For more information on Cyan eCOG1XE01A6 microcontroller, please send us an email at sales@glyn.com.au



New Family of Hall-Effect Sensors from Micronas Integrates Microcontroller and Digital Interfaces



Micronas, a leading supplier of innovative application-specific IC system solutions for automotive and consumer electronics and available through [GLYN High-Tech Distribution](#), has recently announced the HAL 28xy series, a family of Hall-effect sensors optimized for automotive and mechatronic applications that demand accuracy and flexibility combined with low cost. The HAL 28xy is the first Hall-effect sensor family to include a microcontroller, a temperature sensor, advanced on-chip compensation, and a digital interface.

The latest automotive designs require smart sensors to deliver the high level of precision and robustness linked with the capability of local pre-processing of the measured data. HAL 28xy devices meet these needs with a programmable on-chip microcontroller that makes each device more adaptable and more accurate and provides diagnostics for additional reliability and ease of service. The digital interface reduces component and wiring costs, making HAL 28xy family members cost-effective for applications such as seat-track position and fuel-level sensing.

"The HAL 28xy family is highly flexible, offering a fast implementation scenario for new output formats. With the built-in RISC processor we are even able to offer customer-specific signal processing," says Peter Zimmermann, Market Manager Automotive at Micronas. "This flexibility allows OEMs to save time and money in the development cycle."

The key to overall accuracy are three types of error correction. The Hall-effect sensor and on-chip temperature sensor each have their own analog-to-digital converter (ADC). This lets the microcontroller perform spinning-current offset compensation, plus first-order temperature compensation for Hall offset error and second-order temperature compensation for overall Hall-effect sensitivity. The on-chip EEPROM makes it possible to store custom individualized application parameters in each device.

The implemented bus interface can drive the serial bus directly because the bus-driver is fully integrated. Both the power supply and the serial bus connections are protected by over-voltage devices. Family members include devices with LIN bus, used for most interior and passenger comfort applications, SENT, targeted for engine management, and PWM, addressing power steering applications.

Along with the HAL 28xy, Micronas offers an easy-to-use application kit containing a programmer board, LabVIEW™ programming software and the necessary source code. Key application variables such as sample rate, magnetic field range, sensitivity, offset, and the temperature coefficients of sensitivity and offset can be adjusted by programming the non-

volatile memory. Programming is done via LIN frames or BiPhase-M telegrams, depending on the family member.

All HAL 28xy family members are offered in a TO-92UT package rated for use from -40 to +140°C. Pricing and availability vary with model.

For further information on Micronas Hall-Effect sensors, please send us an email at sales@glyn.com.au



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