

ECM-QM57 - 3.5" embedded board based on the new Intel® Core i7 processors

With the ECM-QM57 DATA MODUL AG offers a next-generation 3.5" embedded board with Intel® Core i7 processor.

Based on Intel's 32nm process technology and featuring a two-chip platform that integrates the Northbridge chip with the CPU, this platform delivers enhanced performance, energy efficiency, manageability, security functions and smoother visual experiences.

MODUL AG) other Embedded products, the new ECM-QM57 provides a long-term availability of at least 3 years with a strict revision control.

DATA MODUL offers this highly integrated module also with a wide range of different TFT Displays (AUO, Sharp, CMO,...) inclusive inverters, tested cables and adapted Power-ON/OFF timing. The use of a time intensive display adjustment therefore becomes redundant.

DATA MODUL is able to offer their customers firmware-development for Embedded Systems, driver-adjustments and adjustments of operating systems.



Ref. N° 1105667

Utilizing the low voltage Intel® Core i7-620LE or the ultra-low voltage Intel® Core i7-620UE processor, the ECM-QM57 is adopted with the latest Intel® QM57 Express chipset.

It provides beside the standard I/O features 5 x USB 2.0, 2 x COM (one of them is switchable to RS232/422/485), 16 GPIOs, 2 x SATA, HD Audio, Dual Gigabit Ethernet and one Compact Flash Socket. One Mini PCI Express Socket is optionally available via Daughter Board.

A wide variety of display I/O configurations are supported, including HDMI, dual-channel 18/24-bit LVDS, VGA and dual display configurations.

It has one SODIMM socket onboard which supports up to 4 GB DDR3 800/1066 SDRAM.

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Batron: Colorize your display

Batron is once more adding a new high resolution display module to their chip-on-glass family. Special feature of this display is an absolutely innovative backlighting concept. The LCM incorporates not only 6 super high brightness RGB chips which allow red, green, blue and mixed color backlighting but also 7 LED white chips.

Firstly, this leads to a longer RGB chip lifetime as these can be switched off during the LED White operating periods. Secondly, customers can still enjoy the brilliant white of a pure white LED compared to the white of an RGB color mixing which is usually perceived as greyish. Despite the complex backlighting structure the display is perfectly and evenly lit and de-

monstrates brilliant colors in every color mode.

The new LCM comes with a 240 x 160 pixel resolution and outside dimensions of 88.6 x 67.4 x 6mm with an active viewing area of 82.60 x 53.40mm (3.2")

The display is driven by the microcontroller UC1611, with a serial or parallel interface, and can be connected via FPC and has a built-in bezel with mounting ears. The display can be operated in temperatures from -20°C to 70°C. As with most other Batron modules, contrast ratio and readability are excellent and based on the minimum dot gap of 15µ.

The backlighting of the LCM can be flexibly configured for each customer project so that customers can design in the display with the option of having LED White or RGB backlighting.

Samples are now available from Data Modul.

The display was officially introduced and firstly demoed to the market during the past embedded fair in Nuremberg (March 1st - 3rd 2011).

Ref. Nº 1105666

Ortus Technology - Small and medium sized TFT Displays designed for industrial applications

Ortus Technology – a well-known Japanese manufacturer of TFT modules - is offering a wide roadmap of small and medium sized TFT's from 2.4" up to 6.5"

screen sizes. These modules have been designed for the industrial market. A minimum life time of 5 years is guaranteed. The optical performance, such as viewing angle (80/80/80/80) and contrast ratio is brilliant due to the HAST Technology (Hyper Amorphous Silicon TFT). The LED life time of 50 k hours (half-life time) is an additional key feature of the new series.

Ortus Technology presents some new interesting sizes. One key product is the 2.4" (COM24H2N62XLC) with a QVGA resolution (portrait mode, blanview technology). Many manufacturers discontinued this size, so this would be a great alternative product.

Of interest are two brand new VGA TFTs with 3.2" (COM32H3M85ULC) and 3.5" (COM35H3M73ULC). Both TFTs have a portrait mode and are based on the blanview technology.

The BLANVIEW technology has been developed for outdoor use with direct sunlight where usual transmissive TFT's often failed in respect of readability. With this technology, Ortus found an outstanding solution for outdoor applications with bright ambient light. The new BLANVIEW LCD achieves a pure white screen by optimizing color balance. The transmission factor is about 30 % higher than in conventional TFT's. BLANVIEW is perfect for battery driven, hand-held applications.

Ref. Nº 1105668

