C**O**DIC**O** Semiconductor Newsletter!

Telecom:

Zarlink: High Quality 16-Port Fast Ethernet Switches

Conexant: Single-Chip Processor with Integrated Five-Port Ethernet Switch

Displays:

Ampire: All-in-one solution - QVGA display with integrated touch panel

System Level IC, Memory, MCU and others:

Atmel: NEW ARM920T Processor with integrated Ethernet MAC and USB

Atmel: AT89C5131 a new 8051 Microcontroller with USB

Atmel: End of Life Notice for ATmega103

Atmel: Product Change Notice of the Flash Memory AT49XX002(N)(T)

Atmel: Lead-Time Situation

Micrel: Tiny LDO Power Management ICs - most efficient solution for portable applications

Zarlink: High Quality 16-Port Fast Ethernet Switches

Zarlink expanded its portfolio of high-quality Ethernet switching chips with the ZL5041x family of four devices that cost-effectively aggregate 16 ports of Fast Ethernet traffic. Zarlink's ZL5041x chips deliver advanced QoS features that allow carriers to cost-effectively tailor services to customer needs. The chips switch traffic at wire speed over up to 16 Fast Ethernet (10/100 Mb/s) and two Gigabit Ethernet non-blocking ports. To support these chips, Zarlink also launched a compact version of its Ethernet management software suite, which allows designers to quickly build complete Layer 2 networking solutions. This economical package is designed for backplane applications that require only a subset of the drivers and protocols offered in the full suite. Read more at ZL5041xFamily.doc

Conexant: Single-Chip Processor with Integrated Five-Port Ethernet Switch

The Conexant CX84200 Network Processor supports complete networking system solutions for a wide variety of mainstream applications in the residential and SOHO environments. This Network Processor is a single-chip solution based on a 75 MHz ARM7TDMI with an integrated Ethernet switch that supports five 10/100 Mbps Ethernet ports. The CX84200 Network Processor can provide Internet access sharing capability for multiple PCs, while supporting Ethernet, HomePNA, HomePlug, IEEE 802.11, USB and other LAN-side networking platforms. For WAN access, the unit supports Ethernet connectivity interoperable with any broadband modem. Details at CX84200ProductBrief.pdf

Ampire: All-in-one solution - QVGA display with integrated touch panel

The customer do have the possibility to buy an 320x240 graphic display (monochrome) with special paper white FSTN technology and mounted SED1335 graphic-controller in compact TAB design. Optionally this module is available with touch panel (analog resistive) and touch panel controller. The DC/DC converter on board is responsible for generating the contrast voltage and so the module can run with only 3,3V or 5V single power supply. Furthermore landscape or portrait display format can be selected by jumper setting. See details at AT-320240Q2(controller).pdf

Atmel: NEW ARM920T Processor with integrated Ethernet MAC and USB

Atmel released its AT91RM9200 Microcontroller based on the ARM920T™ 200+ MIPS advanced 32-bit RISC microprocessor from ARM Ltd. The AT91RM9200 offers a flexible configuration of on- and off-chip memories together with an extensive set of peripherals for control, communication and data storage purposes. These include USB Host and Device and Ethernet 10/100 Base T MAC as well as interfaces for a variety of Flash cards including Atmel's DataFlash. A sophisticated power management controller provides a range of clock speeds and enables individual peripherals to be powered down when not in use. It keeps power consumption at a minimum under all conditions of use. There is also a complete development kit with Linux operating system available. Download a short documentation here and ask us for more details!

Atmel: AT89C5131 a new 8051 Microcontroller with USB

The AT89C5131 is an 8-bit Flash microcontroller with integrated full-speed compatible USB 2.0 controller. It also has a highly-flexible self-programming capability offering remote programming and field upgrade via the USB bus from a web server for example or via a customer defined UART interface. Features: 32K Bytes Flash, 1K Bytes EEPROM, 1.25K Bytes RAM. Please see AT89C5131.pdf for more details.

Atmel: End of Life Notice for ATmega103

Atmel has announced the obsolescence for the Mega103L and Mega103. Application note AVR080 describes the Mega103 compatibility mode in the Mega128 and should help customers to have an easy transition. No new orders will be accepted. Download ATmega103.zip for details.

Atmel: Product Change Notice of the Flash Memory AT49XX002(N)(T)

Atmel has done a die shrink redesign from the 0.35μm process to the 0.25μm process on the AT49XX002(N)(T) series to help improve manufacturing lead times and product availability. The 0.25μm devices offer the same high level of quality and are pin compatible with the 0.35μm devices. An "A" suffix has been added to the ordering code for easy identification AT49XX002A(N)(T). See details here.

Atmel: Lead-Time Situation

The lead-time is increasing these days. We currently have something between 6 and 8 weeks. It happens again and again that Atmel is postponing some deliveries very short before the scheduled day. Please place your orders in consideration of this information.

Micrel: Tiny LDO Power Management ICs - most efficient solution for portable applications

The MIC2213/4 offer a dual LDO regulator with an integrated POR (power on reset) supervisor and an open-drain driver. The first regulator (LDO1) is capable of sourcing 150mA of current, while the second regulator (LDO2) can source 300mA and has a POR circuit that detects faults on the output. The MIC2213/4 also offers an open-drain, N-Channel MOSFET that can be used to drive external LEDs for backlighting applications in portable electronics. The total current consumption of the MIC2213/4 is only 48uA, compared to existing discrete solutions that consume 200uA. The MIC2213 and MIC2214 are the smallest available integrated LDO solutions for portable applications, packaged in the 3mm x 3mm MicroLead Frame (MLF™), a new power package which saves significant space over existing SOT or SOIC types. The MIC2213 and MIC2214 are uCap regulators, stable with small ceramic output capacitors, eliminating the need for larger, less reliable tantalum capacitors. All detailed info find at MIC2213.pdf and MIC2214.pdf