

ALCOM TIPS FOR ELECTRONIC DESIGNERS



DEAR ELECTRONIC DESIGNER



Klik [hier](#) voor gratis toegangskaarten. Stand: 8B080

Bezoek Alcom ook tijdens de Bits&Chips Hardware Conference op 18 juni 2009 in de Brabanthallen in Den Bosch. [Meer informatie](#)

Alcom's fabrikaat XMOS zal tijdens dit evenement een lezing geven. [Lees meer](#)



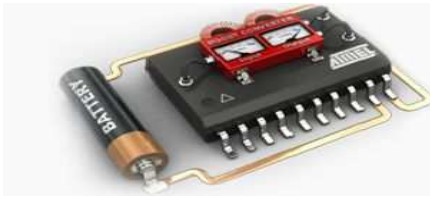
CONTENT

- ▶ [New Family of 0.7V tinyAVR Microcontrollers](#)
- ▶ [Fully integrated current-limited load switch simplifies hot swap management](#)
- ▶ [Programmable Silicon Timing Solutions](#)
- ▶ [C8051F700 Enables Robust, Cost-Effective Capacitive Touch Sensing](#)
- ▶ [ESD Protection for High Brightness LEDs](#)
- ▶ [JetNet3008 Series Value Your Solution of IP Surveillance](#)
- ▶ [IP67/68 Industrial Ethernet Switch](#)
- ▶ [Latest Economical Industrial-Level 8.9 Inch Fanless Interactive Touch Panel PC, FPC-08W](#)
- ▶ [COM Express™ module for the full industrial temperature range](#)
- ▶ [Speed up the development of your display application with Densitron's proprietary V-DUO!](#)
- ▶ [Longer Life and Higher Light Intensity of Sideway Illumination Package](#)
- ▶ [Appliance outlets for PCB Mounting](#)
- ▶ [Small and Smart Innovative Products for Miniaturisation](#)
- ▶ [AC/DC Power Supplies - Medical Grade](#)
- ▶ [Ultra-Miniature, 2W single output SMT DC/DC converters](#)

SEMICONDUCTORS

New Family of 0.7V tinyAVR Microcontrollers





Atmel® announced a new family of tinyAVR® microcontrollers. These AVR® devices are targeted at applications that run from a single battery, such as AA, AAA, or coin cell. The first member of this family is the ATtiny43U. It is a perfect fit for portable battery powered consumer applications like phone accessories, remote controls, sporting goods and personal care products. ATtiny43U has 4-Kbytes of Flash memory and 64 bytes of In-System programmable EEPROM.

Datasheet: [ATTINY43U](#)

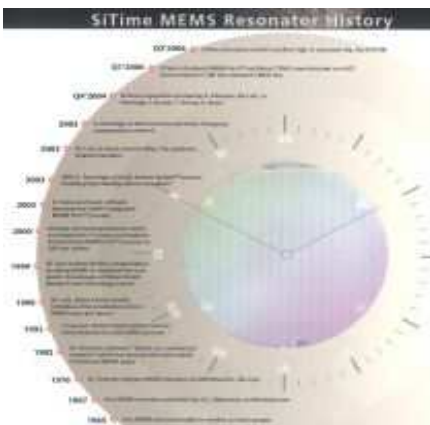
Fully integrated current-limited load switch simplifies hot swap management



While designers of advanced portable systems with hot swap capabilities often need programmability to maximize protection, reverse blocking to control reverse current potentials and a fault flag to indicate over-current or over-temperature conditions, until now they could only add all three functions with a complex discrete approach. By integrating all three features into a single monolithic device, a power switch from AnalogicTech offers designers the highest level of protection available for hot swap in a simple, seamless solution that requires up to one-third less board space than discrete alternatives. The AAT4614 is a current-limited P-channel MOSFET power switch for high side load switching applications. Designed to protect peripheral ports from short-circuit and over-voltage events, the load switch combines reverse current blocking with programmable current limit capability and an integrated fault flag in a silicon footprint up to 30 percent smaller than traditional implementations.

Datasheet: [AAT4614](#)

Programmable Silicon Timing Solutions



SiTime offers a comprehensive suite of MEMS-based, all-silicon, programmable timing solutions, including oscillators and clock generators that are designed to replace quartz-based products. SiTime's semiconductor products offer significant benefits in performance, integration, robustness, reliability, size and cost of ownership over quartz. OEMs, ODMs and design services firms can use SiTime's solutions in a wide variety of products and applications. [Here](#) you can download the product selector by application frequency.

C8051F700 Enables Robust, Cost-Effective Capacitive Touch Sensing



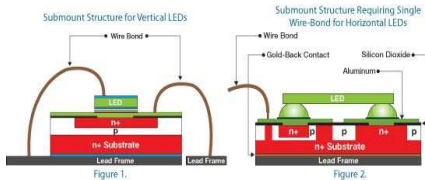
The C8051F7xx family of high pin-count MCUs for cost-sensitive, high I/O embedded systems is the first to offer a new, patent-pending touch sensing feature that is robust, accurate, responsive and easy to configure. Offering up to 54 general purpose I/O pins and a 25 MIPS 8051 CPU, the C8051F7xx family brings a high level of processing power and flexibility to applications such as industrial controls, security systems, residential HVAC, home appliances, keyboards, cash machines



and fax/printer/scanner front panels.

[Product Matrix](#)
[C8051F700 Development Kit](#)
[Capacitive Sensing Application](#)

ESD Protection for High Brightness LEDs



Ultra High Brightness (UHB) LEDs are undergoing rapid growth as recent achievements in efficiency and performance have enabled the usage of LEDs from traditional applications such as status indicators and alpha numeric displays to a diverse set of applications, including handset display and keypad illumination, automotive, signage, residential and commercial lighting. However, these high power LEDs are highly susceptible to ESD damage during handling. California Micro Devices has pioneered the development of ESD protection circuits for high power, high brightness LED applications.

[LuxGuard Protection Devices](#)
[LuxGuard Product Introduction](#)

[top](#)

M2M & WIRELESS MODULES

JetNet3008 Series Value Your Solution of IP Surveillance



The JetNet3008 series is the intelligent rugged unmanaged switch as a quality and cost-effective solution for your important image transmission on high-end IP cameras. JetNet3008, the 8-port unmanaged Ethernet switch outstands from other entry-level switches for the following features:

- High Transmission Quality
- Rugged Mechanical Design
- Cost-Effective solution

Besides model of 8 fast Ethernet port JetNet3008, Korenix provides the JetNet3008f, the 6+2-100FX port Fast Ethernet Switch for your options of long distance transmissions on the very economical budget.

Datasheet: [JetNet3008](#), [JetNet3008f](#)

IP67/68 Industrial Ethernet Switch



JetRock series is designed to provide ultra rugged protection against the threats of the toughest working environments and



the roughest industrial usages. Sealed by extra thickened aluminum enclosure, JetRock achieves the highest level of ingress protection, IP67/IP68, and can withstand significant impacts. Equipped with rugged RJ45 and M12 connectors, JetRock guarantees robust connection even subjected to constant vibration and heavy shocks over the long term.

- * RJ45/IP67 Ethernet Switch
- * M12/IP68 Ethernet Switch
- * RJ45/IP67 PoE Switch

[Selection Guide](#)

[top](#)

TFT & EMBEDDED COMPUTING

Latest Economical Industrial-Level 8.9 Inch Fanless Interactive Touch Panel PC, FPC-08W



Avalue Technology introduced 8.9 inch multimedia interactive touch panel PC, FPC-08W series. With modularized architecture concept and fanless thermal operation, plus 12W only power consumption rate, and front panel is complied with IP-65 water / dust-proof standard, to achieve today's mainstream like cost-effective, power-saving, and eco-friendly. 16:9 widescreen up to 1024x600 resolution, built-in dual Ethernet and optional WiFi module, and the slimmest x86 based touch terminal with only weight 1.26 kg, the FPC-08W suits in extended applications, such as thin client computers, in-vehicle systems, portable devices, digitalized home and POS / Kiosk terminals.

FPC-08W Features:

- 8.9 WSVGA TFT Touch Panel PC
- 5-wire Resistive Touchscreen
- FPC-08WA1: AMD Geode LX800 / CS5536 Chipset
- FPC-08W04: Intel® 945GSE / ICH-M Chipset
- VGA, Audio
- Dual Ethernet / Gigabit Ethernet, Optional WiFi Module
- 1 CF, 2 COM, USB
- Wide Power Input 10~28Vdc
- Fanless
- VESA Compliance

Datasheet: [FPC-08W](#)

COM Express™ module for the full industrial temperature range



The complete design of this compact (95x95mm) COM Express compatible module is geared around low power consumption and the industrial temperature range. All components used for this high density design are specified for an ambient temperature range of -40° to +85°C. Typical power requirements for this module are less than 5 Watts. When combined with ACPI 3.0 battery management, ultra mobile industrial applications are possible.

The congatec In-Vehicle Infotainment starter kit is a typical

application for the conga-CAX given that automotive applications always require extended temperature components. Due to its small size, low power consumption and 2 GByte onboard IDE flash disc, the conga-CAX is also suitable for industrial applications such as PLC devices.

[Datasheet Conga-CAX](#)
[In Vehicle Infotainment Starter Kit](#)

[top](#)

DISPLAYS & OPTO

Speed up the development of your display application with Densitron's proprietary V-DUO!

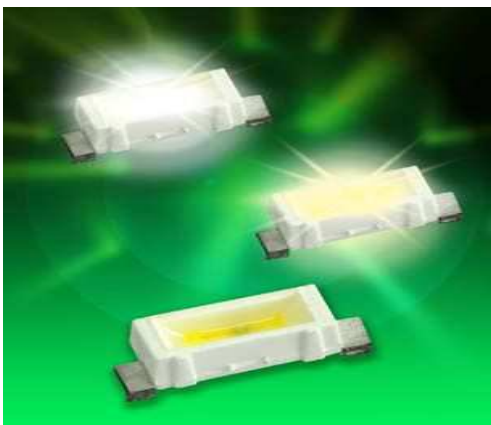
DENSITRON
TECHNOLOGIES



The powerful and user-friendly Kit can considerably shorten the development cycle. With a baseboard which is compatible with the transition boards of most Densitron TFT and Active Matrix OLED (AMOLED) panels, a V-DUO Kit is all it requires for evaluating the wide range of displays on offer from Densitron, making it a worthwhile investment. V-DUO are available in 2", 2.4", 2.8" and 7.6" AMOLEDs. [AMOLED development kit](#)

Longer Life and Higher Light Intensity of Sideway Illumination Package

DOMINANT Semiconductors



DOMINANT introduced a new high intensity white (DSW-NSG) and warm white (DSF-NSG) of its Right Angle DomiLED series, replacing the existing DSWUSD device and completing their product portfolio of low power white LEDs for sideway illumination. With an operating current of only 20mA, this LED features a luminous intensity of 1200mcd (typical) for white and 1000mcd (typical) for warm white. Longer Life and Higher Light Intensity of Sideway Illumination Package. Datasheet: [DSW-NSG](#), [DSF-NSG](#)

[top](#)

PASSIVES & ELECTROMECHANICAL

Appliance outlets for PCB Mounting

SCHURTER
ELECTRONIC COMPONENTS

Panel Mount : Screw-On from rear side
Connector, Pin Temperature 70°C, protection class I or II
For PCB Mounting
Substitute for type P675/PC
Alternative : Protection class II version
Datasheet: [5001 Series](#)



Small and Smart Innovative Products for Miniaturisation



W+P PRODUCTS introduced the new mini-connectors as flat Board-to-Board Connections, Micro USB SMT Connectors and DisplayPort SMT Connectors.

PCB-distances of only 1.7 mm for compact stacking of printed circuit boards are realized with the space saving female header series 6061 in combination with the pin header series 712 or 7072.

The DisplayPort SMT Connector series 8470 is an extraordinary small and smart digital interface for multimedia video and audio data transmission. Easy handling through plug & play operability is combined with competitive costs. Interesting possibilities for miniaturization offers the new Micro USB SMT Connector series 8270 to manufacturers of mobile electronic devices: compared with the Mini USB Connectors they economize up to 50 % of the volume! Datasheet [8270](#)

[top](#)

POWER CONVERSION

AC/DC Power Supplies - Medical Grade



Protek Power offers a diverse offering AC/DC power supplies for patient vicinity medical applications. Our customers benefit from Protek's 20+ years of experience in power supply design and manufacturing for the critical needs of the medical industry. Power ratings range from 25 to 650W, with a selection of open frame, enclosed and desktop package styles. All of Protek's AC/DC power supplies are safety agency certified to worldwide EN60601-1 standards.

[Internal / Open Frame AC/DC Switching Power Supplies](#)

[External / Desktop AC/DC Switching Power Supplies](#)

Ultra-Miniature, 2W single output SMT DC/DC converters



The LF200ES series is a family of 2W DC/DC converters in an ultra-miniature SMT case. These converters provide a unique combination of power, performance, miniature SMT packaging and low cost.

Standard features include:

- * 2W Output Power
- * Ultra-Miniature SMT Package
- * 1,000 VDC Input/Output Isolation
- * -40C to +85C Operation
- * High Efficiency
- * >3.5 MHour MTBF
- * Industry Standard Pin-Out
- * Low 0.24 Inch Profile
- * Available on Tape/Reel

Datasheet: [LF200ES](#)

[top](#)



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