

ALCOM TIPS FOR ELECTRONIC DESIGNERS



DEAR ELECTRONIC DESIGNER



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27-28-29 mei, Jaarbeurs Utrecht

Stand Alcom: 8B080

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SEMICONDUCTORS

Luminary Micro Continues its Leadership with the 4th Generation of Stellaris Microcontrollers



Luminary Micro, creators of the award-winning Stellaris® family of ARM® Cortex™-M3-based microcontrollers (MCUs), announced nine new Stellaris family members, featuring new combinations of connectivity, memory configurations, and advanced motion control. Unveiled today are five microcontrollers in Luminary Micro's new LM3S9000 Series (featuring an on-chip combination of 10/100 Ethernet MAC/PHY, USB On-The-Go, and Controller Area Network) and two new microcontrollers each for the LM3S2000 CAN Series and LM3S5000 USB and CAN Series. The new

Stellaris family members further extend the industry's largest ARM-based microcontroller product line by adding higher performance with speeds up to 100 MHz and lower operating power with 130nm low power technology. [Read More](#)

Industry's lowest power, highest value FPGA devices



The LatticeECP3™ FPGA family is the newest addition to the value-based LatticeECP™ (Economy Plus) FPGA series. Utilizing an ultra low power, cost-optimized 65-nm process FPGA architecture, LatticeECP3 extends the functionality of prior generation families to new levels and provides designers with enhanced features and capabilities at a fraction of the power consumption and cost of competing devices.

Key Features:

- Lowest-Power FPGA with SERDES
- Optimized FPGA Architecture
- Cascadable sysDSP™ With ALU
- Advanced Configuration Options
- High Speed Embedded SERDES
- Flexible sysIO™ Buffers
- Wide Range of Package and User I/O Options

Product Brief: [Lattice ECP3](#)

CLC1004 - 750MHz, 1,400V/μs Voltage Feedback Amplifier



The COMLINEAR™ CLC1004 is a single channel, high-performance, voltage feedback amplifier that provides 750MHz bandwidth at a gain of 2 and 1,400V/μs slew rate. The CLC1004 has 0.1dB bandwidth to 200MHz and 0.02%/0.01° differential gain and phase performance, making this amplifier well suited for video applications.

Features:

- 750MHz -3dB bandwidth at G=2
- 0.1dB gain flatness to 200MHz
- 1,400V/μs slew rate
- Fast, 20ns enable time
- 4nV/vHz input voltage noise
- 100mA output current

Applications:

- Video line drivers
- Imaging applications
- Professional cameras
- Differential line receivers
- Photodiode preamps
- Radar or communication receivers

[Datasheet](#)

[High Performance Amplifier and Comparator Selection Guide](#)

USB cables provide RS-422 and RS-485 interface support



FTDI announced the availability of two serial interface converter cables that incorporate transceivers to facilitate connecting RS-422 or RS-485 based peripherals to a PC's USB port. Using FTDI's FT232RQ USB to asynchronous serial interface IC, the USB-RS485-WE converter cable includes an RS-485 transceiver while the USB-RS422-WE cable utilises a RS-42 transceiver. The far end of the 1.8m cables are wire ended (no connector). With the electronics encapsulated in the USB connector, these cables provide a quick, easy and completely transparent method of supporting these serial interface standards. With the complete USB protocol being managed within the FT232RQ device, there is no requirement for designers or end-customers to concern themselves with how to implement the USB standard. Datasheet: [USB-RS422 cables](#), [USB-RS485 cables](#)



1A, ultra low dropout voltage regulators



The new XC6220 Series of voltage regulators from Torex Semiconductor offer exceptionally low dropout voltage – typically 20mV with a 100mA load. These high current, ultra-low dropout voltage regulators provide a highly stable, low noise supply that meets the demands of battery-driven circuits such as those found in disk drives, digital and video cameras and portable AV equipment. The XC6220 Series consists of a voltage reference, an error amplifier, a current limiter, an inrush current prevention circuit and a phase compensation circuit plus a driver transistor and, with Torex's innovative GreenOperation (GO) function, battery life can be extended greatly. Available in the tiny USP-6C package (1.8 x 2.0 x 0.6mm), as well as in standard SOT-25 and SOT-89-5 versions. Datasheet: [XC6220](#)

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M2M & WIRELESS MODULES

Fastest ARM9 Based Wired and Wireless Embedded Core Module Family



The ConnectCore™ 9M 2443 and ConnectCore™ Wi-9M 2443, are the industry's fastest ARM9-based, network enabled embedded core modules. Supporting both Windows CE and Linux operating systems, the pin-compatible wired and 802.11a/b/g core modules feature state-of-the-art peripherals, rich development resources and speed making the products ideal for display and embedded multimedia applications. This includes embedded applications in networked displays, medical devices, building access controls, energy management devices, time and attendance devices, scales and other devices with multimedia or display technology. [Product Brief](#)

Wavecom launches new WISMO family of entry-level cellular modems for M2M

wavecom⁹
DISTRIBUTOR



Free your product with entry level GSM/SMS/GPRS

WISMO is an entry level cellular modem from Wavecom which adds wireless voice and data connectivity to your product. WISMO enables your product to operate remotely over large geographical territories and even across international boundaries, in any country in the world where a GSM network exists. This extremely cost efficient solution provides WWAN connectivity in a highly compact form factor. [Product Brief](#)

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TFT & EMBEDDED COMPUTING

Powerful Manageability Intel® Q45 Micro ATX Motherboard

avalue
Technology Inc.



Avalue's power-functional Micro ATX (9.6x9.6) motherboard, ACP-Q45DV, is aimed for surveillance application. An ACP-Q45DV combines features with high performance, powerful manageability, and rich expandability, and adopts Intel® Q45 / ICH10DO chipsets technology, supports Intel® dual to quad-core processors, providing an immediate upgraded surveillance system platform.

- Supports Intel® Core™ 2 Quad / Core™ 2 Duo CPUs
- Intel® Q45 / ICH10DO Chipset Supports Intel® AMT 5.0 & vPro
- Four DIMMs up to 8 GB 2-CH DDR2 800 / 667 SDRAM, non-ECC
- Intel® Graphics Media Accelerator 4500
- Realtek ALC888 Supports 7.1 + 2-CH Dual Audio Streams
- Intel® 82567-LM Gigabit Ethernet
- 1 PCIe x16, 1 PCIe x1, 2 PCI 2.3
- 2 Powered COM, 12 USB, 6 SATAII, 16-bit GPIO
- TPM 1.2
- PCIe x16 Supports ADD2 DVI / VGA / HDMI / LCDS Cards

Datasheet: [ACP-Q45DV](#)

Starter kit for PLC manufacturers

congatec
the rhythm of embedded computing

congatec presents with the conga-ARkit a complete solution package for the implementation of PLC functions. The conga-QA, a Qseven Computer-On-Module with the Intel AtomProcessor Z530, was chosen as the hardware basis. Due to its compact dimensions of just 7x7cm², this module can be easily integrated via top-hat rail housing. Additionally, it provides capable, future-oriented interfaces and can simultaneously run two separate operating systems thanks to hyper-threading and virtualization support. [Press Release](#)

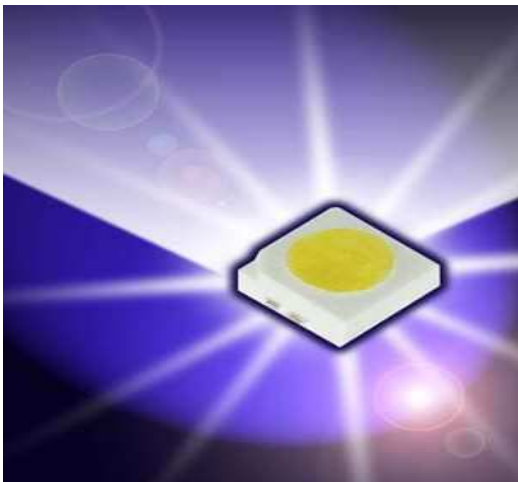


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DISPLAYS & OPTO

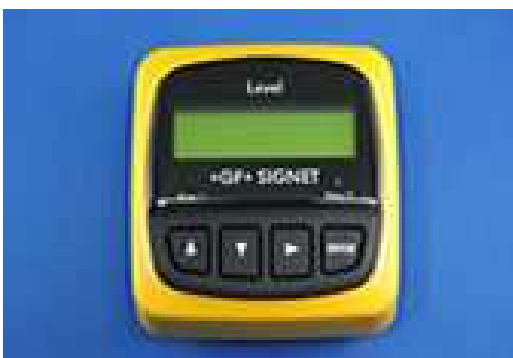
The Radiant Primax White 0.5-Watt

DOMINANT Semiconductors



DOMINANT's newest LED product series, Primax, is designed to provide high intensity light output in a very small package optimized for applications where space is a premium. In order to fulfill market demand and to complete the Primax product portfolio, DOMINANT is now extending the series with 0.5 Watt white versions, NAW-BSG! With its high flux output and suave luminous intensity, our Primax overruns today's standard lighting technology and its perception. With an operating current of 150mA, this new generation LED is able to achieve 24lm/W with low thermal resistance. The Primax package has a compact size of just 3.5mm The Radiant Primax White 0.5-Watt (L) x 3.5mm (W) x 1.2mm (H) and a wide viewing angle of 120°. Datasheet: [Primax](#)

DV-0802



- Low cost and low profile
- Compact and light weight
- Rugged -for durability and long life

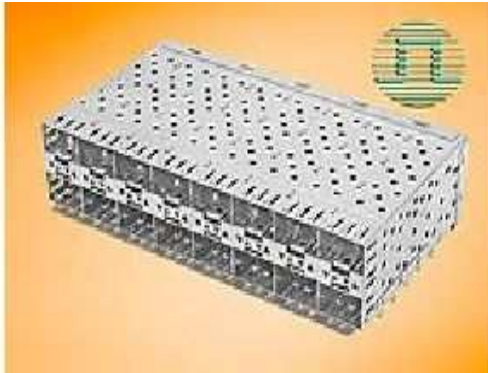
Datasheet: [DV-0802](#)

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PASSIVES & ELECTROMECHANICAL

SFP 2x8 Connector Provides High Port Density for Lower System Cost





Pulse expands its line of connectors and cages with a 2x8, small-form-factor-pluggable (SFP) cage for use in high-end Ethernet networking equipment such as blade servers, switches, routers, and add/drop multiplexers. Pulse's new 2x8 cage measures 25.5mm high x 63.25mm deep x 114.25mm wide. The footprint is compliant with the SFP Transceiver MultiSource Agreement (MSA) standard and is RoHS compliant. It handles speeds up to 5 gigabits and improves connectivity in high-density printed circuit board (PCB) environments. The cage reduces the operating temperature of the transceiver, protects the transceiver from EMI emissions, provides mechanical stability and offers easy transceiver plug-in. Holes in the cage allow air circulation and heat transfer. The cages can withstand temperatures of minus 40 to plus 85 degrees Celsius. Datasheet: [SFP032-L](#)

Compact Power Entry Module for PCB Mounting



DA22, SCHURTER's latest power entry module (PEM) is built compact and provides maximum electrical power density. The unit offers optimal EMC filter performance, features built-in overload protection and ensures resource-saving mounting. The DA22 product line, specifically designed for PCB mounting, combines an IEC appliance inlet, a fuse and a filter into one unit. Pre-wired, this product requires only minimal PCB space and can be mounted with very little time required for wiring. This new PEM integrates EMC filtering and shielding directly at the point of power entry, which has an optimal effect on electromagnetic compatibility. Overload protection is provided by a 1-pole or 2-pole fuseholder for 5x20 fuse links.

The unit is screwed onto the appliance chassis' wall from the inside, the screw-on connection with the printed circuit board ensuring optimal mechanical safety. DA22 is rated for currents up to 10 A at 125/250 VAC. The entire product line is ENEC and cURus approved and meets the requirements for appliances according to IEC 60950. The versions featuring Extrasafe fuseholders and medical appliance filters are ideally suited to medical appliances according to IEC 60601-1. Datasheet: [DA22](#)

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POWER CONVERSION

The Friwo GPP (Global Power Plug) range



The entire GPP family operates from a universal input range from 100-240 V; output voltages from 5-24 VDC and has exchangeable primary adapters. This makes the GPP ideal for worldwide applications.

The GPP family of products combines the latest design, the FRIWO quality and the highest performance in a small housing for an affordable price. The exchangeable primary adapter system is made according to all important standards.



Typical applications include office equipment, modems, measurement & weighing technology, mobile, Bluetooth, communication, electronic cash systems, etc.

[Overview](#)

MPM-10IS : 10W AC/DC power supplies packaged in a compact encapsulated module



Standard features include:

- * 10W Output Power
- * Universal AC Input
- * Meets IEC Safety Class II
- * EN55022 "B Compliant
- * Overload, Overvoltage & Short Circuit Protected
- * >300 kHour MTBF
- * Industry Standard Pin-Out
- * Compact Encapsulated Module
- * Single & Dual Outputs
- * EN60950 (UL) Approval

[Datasheet](#)

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