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endrich NEWS

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Hurrah, we have a new law!! The packaging and packaging waste regulation (PPWR)

We have received a new law from Brussels that we have certainly been waiting for a long time. The content of the law is that packaging is subject to registration, financing and reporting obligations under extended producer responsibility. For customers located elsewhere in the EU, an authorised representative is required who is responsible for the disposal of the packaging and must provide the relevant evidence.

This is an additional cost burden, above all for shipping companies, distributors and importers of every kind, and above all it means a lot of work. In addition to information on request, the PPWR also provides for regular notification and reporting obligations.

The EU authorities have come up with a few subtleties, though, because the PPWR contains various requirements, including those on substances in packaging (Art. 5), recyclability (Art. 6), recycled content (Art. 7) and bio-based raw materials (Art. 8).

And that is not all. If you are a supplier and use packaging material that is suitable for reuse by the recipient and consists of different materials, e.g. a cardboard box with adhesive tape and filling material, the packaging materials and technical information relevant to the conformity assessment must be documented accordingly.

To top it all off, pictorial documentation must also be created in a database.

The information required to demonstrate packaging conformity must be made available within the supply chain and provided to the authorities by the person placing the product on the market. If the packaging material you have received yourself is to be reused, you must draw up a declaration of conformity covering its composition and manufacturing process.

This madness can really only spring from bureaucrats' minds, because it causes additional high costs for everyone who has to implement the relevant measures, i.e. for manufacturers and retailers as well as within the EU authorities themselves.

Our government promised to reduce the bureaucratic burden and thereby cut costs for businesses and, with them, for consumers. The new PPWR stands in complete contrast to this and makes the situation even worse.

Because of the many objections, assurances have been given that the law will now be simplified, in keeping with the motto: "Boss, I'm done with the work, should I start fixing it now?".



New partnership for innovative LED solutions

Endrich Bauelemente GmbH is expanding its portfolio to include Luminus Devices Inc. and is now the new distributor and strategic partner for Luminus in the DACH region. Through this partnership, customers in Germany, Austria, and Switzerland now have access to a portfolio of high-performance LEDs.

Why Luminus?

Luminus Devices develops LED solutions for applications where high optical output, efficiency, and reliable performance are critical. The portfolio ranges from high-performance white and colored LEDs to specialty illumination and UVA, UVC, and IR solutions. The offering is complemented by COB and Dynamic COB technologies.

Luminus is particularly well-suited for applications where standard LEDs reach their limits. High luminance, high optical power density, specialized wavelengths, and compact designs enable new approaches for demanding optical systems.

Focus markets and applications

Together with Luminus, Endrich is further expanding its focus on industrial and specialized applications. These include, among others:

- **Machine vision & Industrial inspection**
High-performance LEDs for image processing, inspection, and lighting systems
- **Medical & Life sciences**
LED solutions for medical instruments, endoscopy, and scientific applications
- **UV Applications**
UVC solutions for disinfection/sterilization, water & air purification, germicidal applications. The Luminus portfolio covers various wavelengths from 365 to 420 nm
- **Lighting markets**
From consumer to professional and performance lighting for stage and studio

▪ Infrared

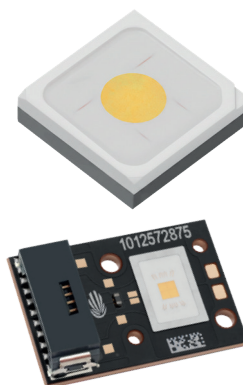
NIR LEDs designed for security, sensing and health & life-science applications

▪ Color & Color-Mix

for architectural, entertainment, stage lighting and signage lighting

The Luminus portfolio

- High-Power LEDs
- High-Power White LEDs
- Color & Color-Mix LEDs
- UVA & UVC LEDs
- IR LEDs
- COB & Dynamic COB Arrays



Of particular note are the high-power and specialty LED solutions. For example, Luminus offers specialty white LEDs with very high optical performance for machine vision, medical instrumentation, and other directional applications.

Through this new partnership, endrich combines Luminus's specialized LED portfolio with its many years of experience in technical sales and the development of customer projects.

Endrich supports customers in selecting suitable LED solutions, obtaining samples, and providing technical project support. From the initial application idea through to design-in.

NEWS

Customized solutions for battery packs

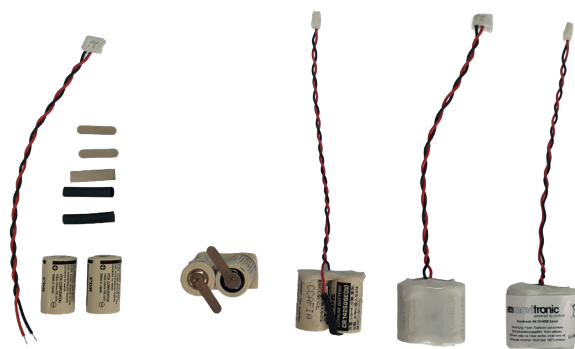
The energy supply is becoming more and more important, especially for mobile devices, self-sufficient applications, and systems that must continue to function during a power outage. To this end, we offer a variety of battery solutions, some of which can be put together and produced to customer specifications.

Thanks to the flexibility of our suppliers, such as HCB Battery Co., Ltd., EVE Battery Co., Ltd., Wuhan Fanso Technology Co., Ltd., and Jauch Quartz GmbH, we are able to offer our customers a broad range of products and thereby bring a wide variety of small- to medium-sized power source solutions to market. The portfolio includes various connection options, with solder tabs for PCB or solder mounting, wires for plug connections, or individual components for the battery/component holder.

In addition to primary cells (disposable batteries), secondary cells (rechargeable batteries) of various chemistries can also be assembled and processed into a battery pack. Even NiMH battery packs can be manufactured in-house in small to medium production runs.



In lithium-metal primary cells, supercapacitors can also be connected in parallel to support the battery in pulsed applications and extend its service life, thereby allowing such an application to be used over a longer period of time.



WE SHOULD KNOW THAT

- What technical specifications (voltage / current / power / battery life) are required for your project?
- Is it a medical or industrial or IoT application?
- Which certifications are needed?
- What security solutions should the battery use?
- What shape and size should the battery pack be?

APPLICATIONS

- Self-sufficient industrial application
- Medical technology
- Automation & IoT
- Precision measurement technology
- Communication technology
- Building monitoring

HAL 3025 – Motor position sensing

The new sensor is specifically designed for high-speed motor control applications and supports precise 360° rotational angle measurement at speeds of up to 60.000 rpm. Leveraging TDK-Micronas' proven SixSense technology, the HAL 3025 delivers high-resolution analog sine/cosine output signals for demanding electric powertrain and actuator systems.

A key feature is its robust suppression of external DC and AC magnetic stray fields in accordance with ISO 11452-8. This enables compact motor designs where power electronics can be positioned in close proximity to the sensing element. At the same time, the sensor eliminates the need for costly magnetic shielding or oversized target magnets, giving designers greater freedom in motor layout design while helping to reduce overall system costs. A simple two-pole ferrite magnet in an end-of-shaft configuration is sufficient for operation.



The HAL 3025 meets the highest automotive safety level (ASIL D). Developed as a universal safety element out of context (SEooC) in accordance with ISO 26262:2018, it can be integrated flexibly and quickly into highly sensitive systems such as brakes or steering. The compact single-chip design (single-die failsafe architecture) with integrated fail-safe functionality noticeably reduces system complexity. Since fewer additional components are required than with conventional multi-chip solutions, the space needed on the PCB is also reduced.

FEATURES

- High-speed 360° contactless angle measurement up to 60.000 rpm
- Magnetic stray-field compensation according to ISO 11452-8:2015
- SEooC ASIL D ready according to ISO 26262:2018
- Fast analog signal path with high output bandwidth for high-performance motor control
- Programmable signal processing: gain, offset, 0-angle, and orthogonality
- Integrated diagnostics for enhanced fault detection and diagnostic coverage

APPLICATIONS

- EV powertrains and HV traction motors
- Rotary position sensing for BLDC and PMSM motor control
- Steer-by-Wire systems
- Brake-by-Wire systems

VC EvoCam: A smart camera with edge AI

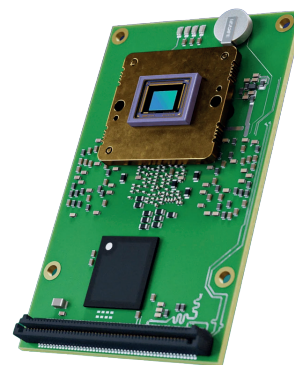
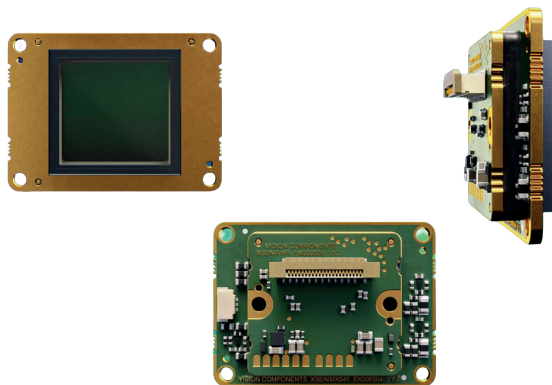
This tiny smart camera integrates a MediaTek Genio 510 Edge AI processor and all components for image acquisition and image processing. The VC EvoCam is configurable with numerous image sensors and can be individually adapted using interface boards. Further highlights for Computer Vision and AI applications include the new 24.5 megapixel VC MIPI IMX540 Camera with Sony Pregius S global shutter sensor and the VC MIPI AR2020, VC's first MIPI camera with Onsemi image sensor.

The VC EvoCam can be configured with an onboard image sensor or with one or two cable-connected remote-head cameras. Image sensors from the VC MIPI Camera portfolio are available for this purpose; the first VC EvoCam is equipped with the Sony IMX900 image sensor featuring 3.2 MP resolution and global shutter. The MediaTek Genio 510 Edge AI processor is integrated for direct image processing. It features two ARM Cortex-A78 and four ARM Cortex-A55 cores, an ARM Mali GPU, and an NPU with a performance of 3.2 TOPS. Up to 2 GB of RAM, 16 GB of flash memory, and expandability via SD 3.0 enable the processing and storage of extensive image data. The VC EvoCam is supplied with a customized Debian Linux operating system. Common image processing functions are directly supported and included as demo applications.

Signals for interfaces and processor functionalities are made available here, including I/Os, I²C, USB, Ethernet, Video DSI, and PCIe.

FEATURES

- MediaTek Genio 510 Edge AI processor with NPU (3.2 TOPS)
- Configurable with an on-board image sensor or up to two remote head cameras
- Compatible with the entire VC-MIPI camera portfolio (including VC MIPI IMX540, VC MIPI AR2020)
- Customised Debian Linux operating system including demo applications



APPLICATIONS

- Industrial image processing and quality control
- Computer vision and AI applications in the field
- Robotics and automation
- Embedded vision systems with customised sensor configurations

High-efficiency, non-isolated DC/DC switching regulators

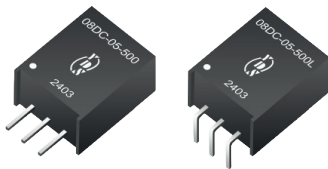
Yuan Dean Scientific's (YDS) 01DC-500, 01DC-1A and 08DC-500 series are non-isolated, highly efficient switching regulators that, compared to a conventional linear regulators, offer a wide input voltage range, a more compact design, high efficiency, no need for a heat sink, and a lower price. In addition, compared to discrete IC solutions, the products are more versatile and offer better performance and reliability.

The series are available in pin-compatible SIP packages (with the same pin assignment as the LM78 linear regulator) with 0.5 A to 1 A.

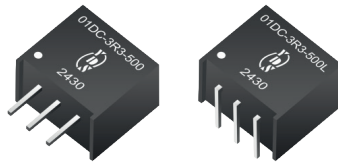
As universal voltage converters, the devices are frequently used as replacements for LM78xx or K78 series linear regulators, for converting high voltage into low-voltage auxiliary power, for powering microcontrollers, sensors and communication modules, in industrial control boards, displays and monitoring equipment, for distributed point-of-load power conversion, and in many other applications.

Switching Regulators

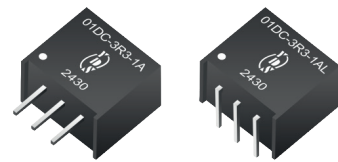
non-isolated DC-DC, 500mA & 1A



08DC-500 series



01DC-500 series



01DC-1A series

Series	Cert.	Current	Input (VDC)	Output (VDC)	Eff. (max)	Package
08DC-500	CE, UL 62368-1	500 mA	9 - 90 V	3.3, 5, 6.5, 9, 12, 15, 24 -3.3, -5, -12, -15	93 %	SIP 3
01DC-500	CE, UL 62368-1	500 mA	4.75 - 36 V	1.2, 1.5, 1.8, 2.5, 3.3, 5, 6.5, 9, 12, 15; -1.2, -1.5, -1.8, -2.5, -3.3, -5, -6.5, -9, -12, -15	95 %	SIP 3
01DC-1A	CE, UL 62368-1	1 A	4.75 - 36 V	1.2, 1.5, 1.8, 2.5, 3.3, 5, 6.5, 9, 12, 15 -5, -12, -15	95 %	SIP 3
01D-2A	-	2 A	4.75 - 36 V	1.8, 2.5, 3.3, 5, 6.5, 9.0, 12, 15	96 %	SIP 3
01DS-500	-	500 mA	4.75 - 36 V	3.3, 5, 6.5, 9, 12, 15	95 %	Open frame

NEWS

Compact step-down power module

The GD30DM1113 is an easy-to-use, extremely compact synchronous step-down power module with an output current of up to 3 A, specifically designed for space-critical applications. With a wide input voltage range of 2.5 V to 6 V and an adjustable output voltage starting from 0.6 V, the device is ideally suited for optical modules, networking and server applications, mobile products, and storage applications.

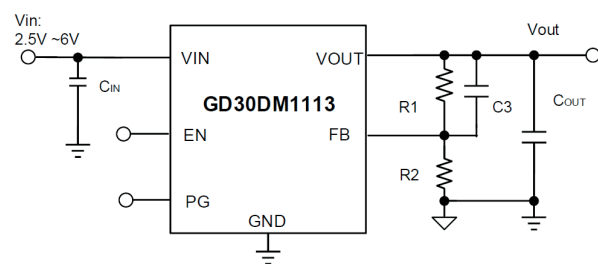
The module integrates low-resistance power transistors (MOSFETs) and an inductor, thereby enabling a particularly compact power supply solution. Only five external components are required for an output current of up to 3 A. Constant on-time (COT) control with internal compensation enables fast loop response and stable operation. The fixed switching frequency of 2.4 MHz and forced PWM operation support efficient power conversion.

Additional flexibility is provided by the maximum duty cycle of 100%, the adjustable EN UVLO, automatic output discharge, and a Power Good output. Comprehensive protection features such as overcurrent protection with hiccup mode, FB open/short protection, and thermal shutdown ensure reliable operation.

FEATURES

- 2.5 V to 6 V Wide input range
- Up to 3 A output current
- 20 μ A low quiescent current
- 2.4 MHz fixed switching frequency
- Forced PWM operation mode
- Output voltage adjustable from 0.6 V
- 100 % maximum duty cycle
- Constant on-time control for fast response
- Power good indicator
- Output auto discharge
- Adjustable EN UVLO
- Full protection: OCP with hiccup mode, FB Open/Short protection, OTP
- Available in EMLGA2X2.5-10 package

Simplified application schematic



APPLICATIONS

- Optical module
- Networking / Servers
- Power for portable products
- Memory (SSD / HDD)
- Space-constrained applications

GD25NX Dual-voltage xSPI NOR-Flash



The GD25NX Series xSPI NOR Flash with dual-voltage design optimized for high-speed, low-power 1.2 V SoC applications. The high-performance dual-voltage xSPI NOR Flash with 1.8 V core and 1.2 V I/O, enabling direct connection to 1.2 V SoCs without booster circuits, reducing power consumption and BOM cost.

KEY FEATURES

- Dual-voltage architecture (1.8 V core / 1.2 V I/O) for direct connection to low-voltage SoCs and reduced power consumption
- Octal SPI (xSPI) up to 200 MHz, STR/DTR modes, up to 400 MB/s throughput
- Fast program / erase: ~0.12 ms page program, ~27 ms sector erase (~30 % faster program, 10 % faster erase vs. 1.8 V Flash)
- High data reliability: integrated ECC, CRC, and DQS for stable high-speed transfer
- Low power operation: up to 50 % lower read power with 1.2 V I/O design



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