07&08/2026

endrich NEWS

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# We'll be exhibiting at SIDO Lyon and The Things Conference in September 2026

Once again this year, we warmly invite you to visit us at two exciting IoT trade fairs: SIDO Lyon and The Things Conference. Experience a seamless IoT ecosystem that demonstrates connected applications live and in real time – from the sensor to the cloud.

The focus is on how individual building blocks come together to form a robust overall system: we'll demonstrate how sensor technology, wireless technologies and selected partner solutions work seamlessly together to enable an end-to-end data chain.

At our stands, you'll experience how innovative technologies interlock to make intelligent, connected solutions a reality for industry, smart cities and the IoT.

You can book your ticket for both trade fairs now. Please activate it via the relevant registration portal to ensure it is available in good time.

We look forward to seeing you there!

sido

**SIDO Lyon**
16 and 17 September 2026
Booth E341
Book a ticket: www.sido-lyon.com/en/visit/register
Your personal voucher code: **E-ENDFTLY26**

THE THINGS CONFERENCE

**The Things Conference**
22 and 23 September 2026
Booth M12
Book a ticket: www.thethingsconference.com/tickets

# Transformation of electrification

Amphenol's PowerLok connector series features a compact metal housing and is available as a single connector as well as in pre-assembled or overmoulded versions. PowerLok connectors are suitable for a wide range of applications in powertrains, batteries, PDUs and motors, as well as in lorries, buses, agricultural machinery and construction machinery.

The following PowerLok series are available:

POWERLOK
G1 40 & 60

POWERLOK
G2 60

POWERLOK
G2 300, 500

POWERLOK G1 200, 300, 500
Assembled Version

POWERLOK G1 120, 300, 500
Overmolded Version

## FEATURES

- Up to 1,500 V DC and 500 A
- Compact design with 1 to 4 poles
- Protection ratings up to IP6K9K and HVIL safety
- Colour coding
- 360° shielding
- Temperature: -40 °C to 125 °C

## APPLICATIONS

- Electric and hybrid vehicles
- Energy storage and solar power systems
- Industrial and data centre applications
- Commercial vehicles and construction machinery



GEC

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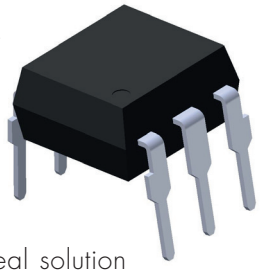
# EWS

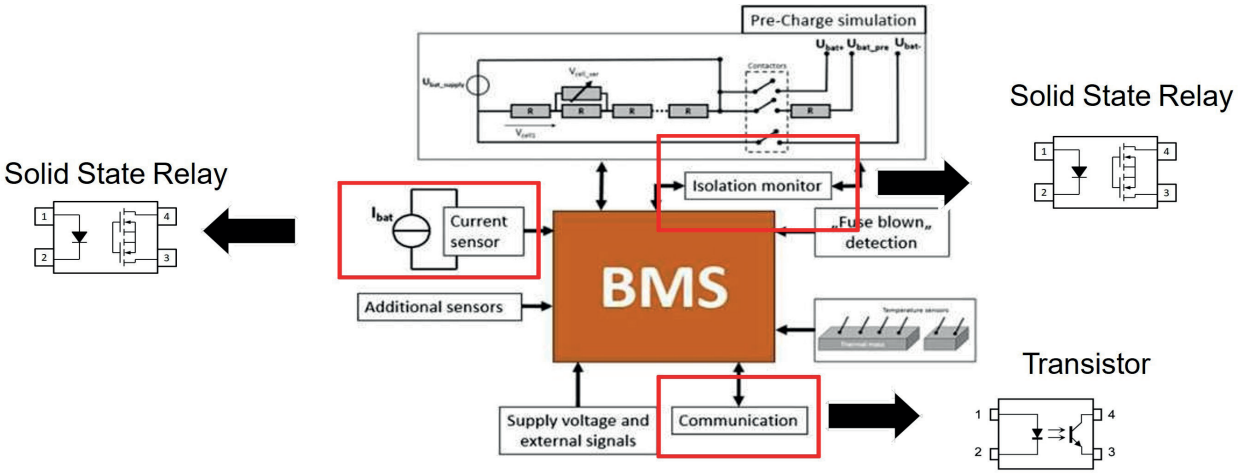
## SiC MOS relay EV6330



Everlight is expanding its product portfolio with the EV6330 series of Silicon Carbide Solid-State Relay couplers. The devices contain infrared LEDs on the input side optically coupled to a high voltage output detector circuit using a Photo MOSFET. The single channel configuration is equivalent to a 1 form A electromechanical relay.

These automotive grade MOS Relays, available in DIP-6 or SOP-6 packages, are offered with a very high maximum load voltage of 3300 V, which makes them the ideal solution for applications like inverters, charging stations, Battery Management Systems (BMS) in e.g. electric vehicles (BEB/HEV), etc.

The series meets all safety-related certifications, including VDE, and, with an operating temperature range of -40 °C to +125 °C, is also suitable for use in harsh environments. The series complies with RoHS, REACH and is halogen-free.




Schematic of an EV charging battery management system circuit

## FEATURES

- SiC Opto-MOSFET Relay
- Signal pole: normal open
- Compact size
- Low operating current/voltage
- High isolation voltage of 5 kVrms
- High load voltage of up to 3,3 kV
- Wide operating temperature of -40 °C to +125 °C
- RoHS & REACH compliant
- AEC-Q certified

## APPLICATIONS

- Battery management systems (BMS)
- Charging stations
- Insulation detection modules
- High voltage protection modules
- Automatic test equipment (ATE)
- Inverters
- Industrial controls



EVERLIGHT

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# Power supply solutions from GlobTek

Today, the electronics industry demands increasingly efficient, safer, and more compact power supply solutions. GlobTek develops and manufactures a wide range of standard, modified, and custom power supplies. The power output ranges from compact 5-watt units to demanding 2-kilowatt models. A key differentiator of GlobTek is its enormous design flexibility. Dedicated engineering teams work closely with clients to realize even complex challenges within tight budget constraints. Services cover the entire product lifecycle – from initial concept development and prototyping to contract manufacturing.

In the age of connected devices and the Internet of Things (IoT), environmental conditions are playing an increasingly important role. GlobTek addresses this trend with innovative concepts, such as waterproof USB power adapters specifically designed for outdoor IoT applications.

## REQUIREMENTS

- What technical specifications (voltage / current / power) does your project require?
- Is this a medical or industrial application?
- What certifications are required? (e.g. UL, cUL, TÜV, CE...)
- Is protection class I or II required?
- Is the protective conductor connected or isolated?

## APPLICATIONS

- Medical power supplies
- Industrial power supplies
- Automation & IoT
- Household (IEC 60335-1)
- Waterproof applications
- Special environments
- Peripheral devices (USB C PD)



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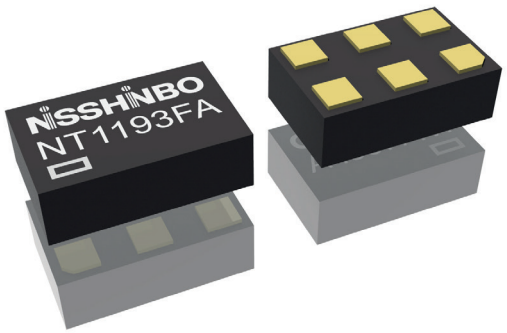
# EWS

## Wideband GNSS low noise amplifier

A GNSS wideband Low Noise Amplifier (LNA) is fundamentally the first sensitive RF gain stage in a satellite navigation receiver front end, optimized to amplify signals that are extra-ordinaly weak when they arrive at the antenna. GNSS satellites transmit with significant power, but after traveling roughly 20,000 km, the received power at the Earth's surface is below the thermal noise floor. For that to work well, a dedicated amplifier is needed to boost the signal to preserve signal integrity before digitization.




Nisshinbo Micro Devices offers a smart solution with the NT1193, a cutting-edge wideband LNA that sets new standards in low current consumption and high performance for multiband GNSS applications (GPS, GLONASS, Galileo, BeiDou, etc.).

The NT1193 operates across a frequency range of 1164 MHz to 1610 MHz and offers a compact solution with a high gain of up to 21.5 dB in the L1/L2/L5/L6 bands and a remarkably low noise figure of just 0.7 dB in the same bands. With an operating current of only 5.0 mA and a versatile supply voltage range from 1.5 V to 3.7 V, this LNA enables prolonged device operation, which is critical for today's mobile technology.

The LNA features a small EPFFP-6-FA package size of just 0.7 x 1.1 x 0.37 mm, making it one of the smallest solutions in its class and requires only two external components. The NT1193 also includes a standby function to further reduce power consumption, extending battery life when not in active use. It is designed for a wide range of applications, including GNSS receiver applications, GNSS modules, tracking devices, drones, etc. It provides robust performance even in the most demanding environments.

### FEATURES

- Frequency range: 1164 MHz to 1610 MHz
- Supply voltage: 1.5 V to 3.7 V (2.8 V typ.)
- Low current: 5 mA typ.
- High gain: 21.5 dB typ.@ L1/2/5/6 band
- Low NF: 0.7 dB typ.@ L1/2/5/6 band
- P-1dB(IN): -16 dBm typ.@ L1/2/5/6 band
- Stand-by function

### APPLICATIONS

- Multi GNSS receiver applications
- GNSS modules
- Tracking devices
- Drones



NISSHINBO

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# End of Hardware Lock-In for Edge AI

Edge AI is developing rapidly – yet many developers face the same problem: the hardware lock-in. Nearly every manufacturer offers its own System-on-Module (SoM) with a proprietary pinout, its own Software Development Kit (SDK) and its own toolchain. As soon as a processor is selected during hardware design, the entire system becomes tied to that exact platform.

This dependency can become expensive. If a processor is discontinued, if the requirements for AI computing power increase, or if a switch to a new processor generation is desired, a complete redesign of the circuit board is often required. This results in high development and certification costs and significantly delays time-to-market.

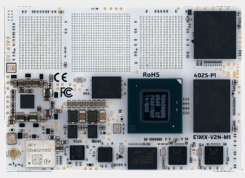
This is exactly where Alp Lab from Sweden comes in with the E1M Open Standard. The vendor-neutral standard defines a unified mechanical and electrical interface for edge AI modules in the 35 × 35 mm and 45 × 65 mm form factors. This allows different processor platforms to be used on the same carrier board.

The decisive advantage: instead of a costly board redesign, switching to a more powerful or more readily available processor often only requires replacing the module. This reduces development effort and costs, shortens product cycles, and increases the future-proofing of industrial embedded systems.

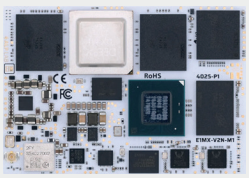
Complementing the hardware platform, Alp Lab also offers the Alp SDK on the software side: a unified C/C++ API built on Arm CMSIS that brings together the runtime environments of four processor manufacturers (Alif, NXP, Renesas, and DeepX) under a common interface.

The firmware only needs to be developed once: the same code runs on all E1M modules – including future product generations. The hardware is described once in the "board.yaml" file. If a different module is to be used, it's enough to adjust the part number. The source code remains unchanged, and a second development environment is not required.

E1M-AEN
0.25 – 0.5 TOPS



E1M-X V2N
4 TOPS



E1M-X V2N+M1
29 TOPS

SMART EYE
4 – 33 TOPS

## FEATURES

- Vendor-neutral open standard design (CC BY-SA 4.0)
- A single unified SDK for Alif, NXP, Renesas and DeepX
- Operating temperature range: –40 °C to +85 °C
- 10-year supply guarantee

## APPLICATIONS

- Predictive maintenance
- Drones and robotics
- Industrial machine vision
- Smart infrastructure

ALP LAB



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# IEWS

## CQM220 5G RedCap Module

The CQM220 is a 5G RedCap module from Cavli Wireless, designed for IoT applications that require a balance between performance, power efficiency, and cost.

Based on 3GPP Release 17, it supports standalone 5G (SA) as well as fallback to 4G/LTE, making it suitable for global deployments.

The CQM220 offers a compact and flexible 5G solution for IoT deployments, combining sufficient data throughput, global connectivity, and accurate positioning in a cost-efficient RedCap design.


### SPECIFICATIONS

- 5G RedCap (Rel. 17) with 4G fallback
- Data rates: up to 223 Mbps (DL) / 120 Mbps (UL) in 5G
- Processor: ARM Cortex-A7 up to 1.9 GHz
- Memory: up to 512 MB RAM + 512 MB Flash
- GNSS: Multi-constellation (GPS, GLONASS, Galileo, BeiDou, NavIC), L1 + L5
- Form factor: LGA, 28.0 × 25.5 × 2.7 mm
- Interfaces: PCIe Gen2, USB 2.0, UART, SPI, I2C, GPIO
- OS: OpenWrt
- Operating temperature: -30 °C to +85 °C

### APPLICATIONS

- Asset tracking & fleet management
- Industrial IoT (Industry 4.0)
- Smart surveillance (HD video)
- Smart city infrastructure
- Connected healthcare devices
- Retail & POS systems



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# Supercaps from Zhuhai Leaguer

Maximum performance for demanding applications: Zhuhai Leaguer's supercaps stand for efficient, reliable, and long-lasting energy storage. They are the ideal solution for systems requiring fast charge and discharge cycles, stable power supply, and high pulse load capability — from backup power systems to industrial and energy-related applications.

Combining high capacitance, low ESR, and excellent cycle stability, these components deliver consistently high performance even under challenging operating conditions. Their wide operating temperature range, along with rapid energy absorption and delivery, makes them particularly well suited for dynamic and safety-critical applications.


Thanks to a wide range of form factors and module configurations, Zhuhai Leaguer supercaps can be flexibly integrated into various designs, offering a future-proof solution for modern energy storage concepts.

## KEY FEATURES

- High capacitance for maximum energy efficiency
- Low ESR for superior pulse performance
- Fast charge and discharge capability
- Reliable operation across a wide temperature range
- Selected series AEC-Q200 compliant

## AVAILABLE TYPES

- Lead type
- Dual 85 cells
- Snap-in type
- Laser welding & screw type
- Wind power module
- Energy storage module
- Standard module



Leaguer

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