

# M2S TECH

## M2S Tech 2026 Q1 Product Highlights

Happy New Year from the M2S Tech Team! We are excited to share some of the latest technologies from our supplier partners that may be beneficial in your current or upcoming design efforts. Feel free to reach out to our team if you are interested in discussing any products in more depth or would like to receive samples.

M2S Tech Contact Page: <https://m2stech.com/contact-us>



### Murata Isolated DC-DC converters for PoE IEEE802.3af

PoE technology enables power supply over LAN cables used to build networks, improving installation flexibility, and reducing costs. In recent years, network-enabled devices such as cameras have increasingly adopted PoE technology.

Murata has developed this module compliant with IEEE802.3af. The module's compact, low-profile design (26×14.8×6.8mm) enhances layout flexibility on circuit boards. It is mainly suited for authentication devices that require space-saving and low-noise characteristics and contributes to the miniaturization of other communication devices.



**Infineon PSOC Control C3 Performance Line**  
PSOC™ Control C3 Performance Line meets the needs of industries that require precise control and demanding power conversion. Being Wide Band Gap (WBG) ready, the family completes Infineon system offering for best performance in power conversion applications in AI server PSUs, solar, SMPS, EV charging and robotics. The Performance Line comes with advanced security being PSA L3 certified and is ready for Post Quantum Cryptography.

### Key Features

- ARM® Cortex-M33-core based MCU
- Up to 512KB Flash memory
- Up to 240KB SRAM with ECC
- Fully programmable HW accelerators
- ADC with Analog Frontend
- High resolution PWMs (HRPWM)
- Post Quantum Cryptography compliant
- PSA L3 certified
- Low power operation
- Multiple packages up to 100-pin



### **Digi XBee Wi-Sun RF Module**

Digi XBee® is a family of wireless communication modules designed for embedded solutions. Using the Wi-SUN® protocol, the Digi XBee for Wi-SUN solution forms a low-power, wide-area network (LPWAN) designed for mesh networking in large-scale outdoor and urban environments, such as smart cities, smart grids, and other Industrial IoT (Internet of Things) applications.

Wi-SUN (Wireless Smart Ubiquitous Network) is an open standard protocol developed by the Wi-SUN Alliance. With over 300 alliance members and over 100 million devices deployed, the Digi XBee solution for Wi-Sun, is scalable, secure and standards-based. Wi-SUN mesh networking works over long ranges and supports both battery-operated and mains-powered devices. In addition to Digi XBee for Wi-SUN modules, Digi has Wi-SUN border routers to bridge the Wi-SUN network to the Internet via Ethernet, Wi-Fi or cellular connections.

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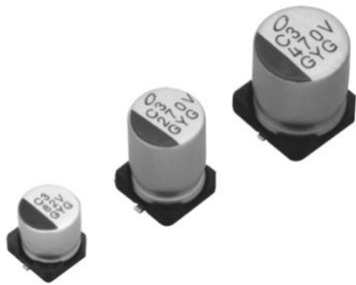


### **Hirose Waterproof ix Industrial Connector**

The ix Industrial™ was first introduced in 2017 through a technology partnership between Hirose Electric and Germany's HARTING Technology Group. Since then, it has been widely adopted across a range of industrial applications—including factory automation (FA), robotics, and machine vision—due to its compact size and high durability. The ix Industrial™ has been used as a communication connector by many major industrial equipment manufacturers including for Ethernet-based systems.

In manufacturing environments, wiring is often required in areas exposed to high humidity or dust. Traditional RJ45 waterproof connectors tend to be large, creating challenges for mounting space and handling. To address these issues, Hirose has added a waterproof version to the ix Industrial™ Series—already well regarded for its compact form factor and rugged design. Compared to RJ45 waterproof connectors, the ix Industrial™ is significantly smaller and, with its IP67-rated waterproof and dustproof performance (when mated), offers greater flexibility for use across a wide variety of industrial equipment.

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### Nichicon GYG Series

The high-reliability, low-ESR GYG series of conductive polymer hybrid aluminum electrolytic capacitors offers improved capacitance over the GYF and GYA series. The GYG series utilizes high-capacitance foil and thin separators to deliver capacitance and ripple current capability up to 1.8 times that of the standard GYA series. These increases enable miniaturization in your designs by reducing the number of capacitors needed. The series offers rated voltages from 25 V to 35 V and capacitances from 82  $\mu\text{F}$  to 680  $\mu\text{F}$ , with an operating temperature range of  $-55\text{ }^{\circ}\text{C}$  to  $+125\text{ }^{\circ}\text{C}$  and a life of 4,000 hours at  $125\text{ }^{\circ}\text{C}$ . RoHS and AEC-Q200 compliant.

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### Zettler ZPI30S Switching Power Supply

Zettler's ZPI30SXX00WN-0SF model offers numerous advanced features, including a high energy efficiency of 85%, a wide input voltage range from 90VAC to 305VAC, as well as protection functions against overvoltage, overcurrent and short circuits. With its compact design, the module is particularly suitable for applications in industry and in e-charging systems. It also meets international standards such as EN62368-1 and EN55032 Class B for electrical safety and electromagnetic compatibility.

Thanks to the wide operating temperature range of  $-30\text{ }^{\circ}\text{C}$  to  $+70\text{ }^{\circ}\text{C}$  and a high isolation voltage of 3000VAC, the ZPI30SXX00WN-0SF offers exceptional reliability in harsh environments. The integrated EMI filter and low standby power consumption ( $<0.1\text{W}$ ) make the module particularly environmentally friendly and meets the highest efficiency requirements.

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