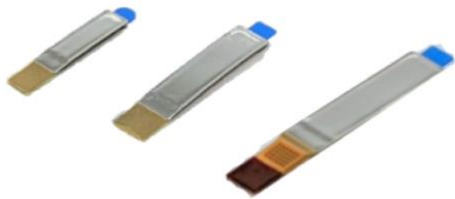




M2S Tech 2025 Q2 Product Highlights

M2S Tech is 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 Picoleaf Sensor

Made possible by Murata Manufacturing with our unique piezoelectric technology, Picoleaf is a flexible and thin sensor capable of highly sensitive bending, twisting, pressing force, and vibration detection. It can be mounted in smaller spaces, is thinner than conventional sensors, and can be used to improve the assembly and durability of products.

Picoleaf can be used to obtain output based on the displacement speed of the piezoelectric film when used in combination with a detection circuit. These output characteristics can be used to design various sensors for detecting pressing force, state, biosignals, and more. Potential application examples include touch panels, wearable devices, and home appliances.



Infineon PSoc Edge MCU

PSOC™ Edge is designed for next generation responsive compute and control applications, featuring hardware-assisted machine learning (ML) acceleration.

The PSOC™ Edge devices are based on high performance Arm® Cortex®-M55, including Helium™ DSP support paired with Arm® Ethos™-U55 and Cortex-M33 paired Infineon's ultra-low power NNLite neural network accelerator. Lead devices are built in ultra-low power 22-nm embedded-RRAM technology. Support for "always-on" sensing and response makes the devices ideal for advanced IoT devices such as smart home, security, wearables, robotics, and many more. The family of devices come and ample on-chip memories to support most advanced applications PSOC™ Edge consists of dozens of devices that provide scalability for increasingly sophisticated next-generation intelligent systems, while enabling software reuse and portability.



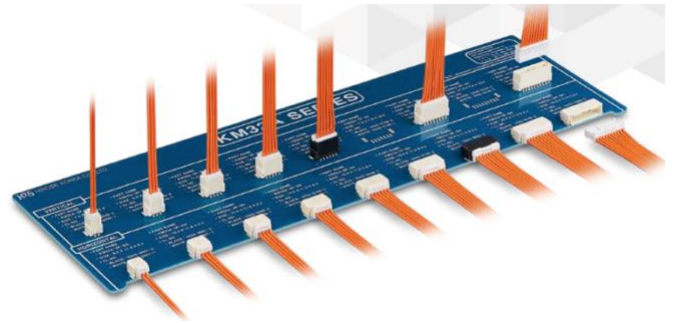
Digi XBee LR LoRaWAN Module

Digi XBee® LR modules accelerate time to market for developers, OEMs and solution providers to rapidly deploy LoRaWAN wireless connected solutions.

The Digi XBee LR module is available in a range of embedded form factors with a software-defined radio that supports multiple global regional profiles from a single device across multiple LoRaWAN™ markets.

Digi XBee LR modules are ideally suited for very narrowband industrial communications for sensors and control systems, with a temperature rating for -40 °C to 85 °C. The Digi XBee LR uses LoRa™ modulation for Non-Line-of-Sight (NLOS) two-way communications for long-range and high-noise RF environments.

The XBee LR supports the LoRaWAN communications protocol, enabling direct communication with standards-compliant LoRaWAN gateways and network server cloud software over long range with very low-power consumption.



Hirose KM32A Series

2.0mm Pitch, 0.5 Terminal Tab Size, Wire-to-Board Connector

- 1 Space-saving connector
(Contact size 0.5mm / 2.0mm pitch)
 - 2 Wide Variations
 - Interface Types: Straight / Right angle
 - Single row
 - 3 Meets severe automotive requirements
 - 4 Safety design with center lock prevents incomplete mating, mis-insertion and lock damage
 - 5 Secure stringent terminal retention and coupling sounds
 - 6 Unique contact design enhances vibration resistance.
-



Nichicon PCY Series

Nichicon has developed the PCY series of chip-type conductive polymer aluminum solid electrolytic capacitors featuring high heat and moisture resistance, as well as long life—designed to meet the growing demand for heat resistance and longevity in next-generation communications systems.

The PCY series offers guaranteed operation for 12,000 hours at 125°C and moisture resistance for 1,000 hours at 85°C and 85% R.H., thanks to a high heat-resistant sealing rubber that enhances airtightness and protects the conductive polymer from degradation, combined with an optimized conductive polymer electrolyte.



SkyHigh Memory LPDDR4x/LPDDR4

SkyHigh Memory S60 LPDDR4 and S70 LPDDR4x (Low Power Double Data Rate) memory product family is designed for applications that need high performance with lower power consumption.

Skyhigh Memory LPDDR4 and LPDDR4x product memory support I/O voltage respectively as low as 1.1V and 0.6V and I/O transfer rate as high to 4267 MT/s.

SkyHigh Memory LPDDR4/4x products is currently available in 8Gb and 16Gb and is offered in JEDEC compliant 200-ball BGA packages.
