



M2S Tech 2025 Q1 Product Highlights

We hope you have had a great start to 2025! M2S Tech is happy to share some of the latest technologies from our supplier partners that may be beneficial in your current 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 Wi-Fi HaLow Modules

Murata is pleased to introduce two ultra-low power Wi-Fi HaLow™ modules ([LBWA0ZZ2HK](#) and [LBWA0ZZ2HL](#)) compliant with Sub-1 GHz (S1G) Wi-Fi standards across key regions, achieving high-speed communication over distances of more than 1km.

Due to their IP-native standard compliance with no network costs, the Type 2HK/2HL modules reduce the need for repeaters in existing Wi-Fi/IP communication-based solutions, enabling private network area expansion and lowering system costs. Additionally, compared to other low-power, wide-area (LPWA) network technologies, the long-range, high-speed communication of the modules can facilitate image and video transmission.



Infineon PSoc Control C3 MCU

PSOC™ Control is Infineon's newest MCU's developed specifically for motor control applications. Using real-time control Arm® Cortex® - M33 based core, this high-performance microcontroller family integrates advance real-time control peripherals to provide designers the ability to improve performance of their next motor control products.

PSOC™ Control provides designers the ability to innovate their products. This is possible due to the integrated programmable analog sub-systems such as the 12-bit, 12-Mbps high-performance ADC, and CORDIC Accelerator. With true synchronous "idle" sampling of up to 16 analog signals from the single core ADC, up to 25% faster results is possible without any sampling jitter. The CORDIC Accelerator can off load CPU and increase of computational power for real time critical tasks such as field-oriented motor control algorithms. In addition, the programmable timer/counter pulse-width modulator (TCPWM) has a Motion Interface (MOTIF) block that can be used to communicate motor control signals



Digi ConnectCore 91/93 SOM

Digi ConnectCore 91/93 features up to two power-efficient Arm Cortex®-A55 cores and NXP PMIC for maximum power efficiency. Digi ConnectCore 93 also includes a Cortex-M33 core and AI/ML Arm Ethos U65 NPU, plus video and graphics capabilities. The SOMs are designed for industrial reliability and 10+ year product lifecycles of embedded devices. The Digi SMTplus surface-mount form factor provides simplified design integration, efficiency and reliability. Digi ConnectCore 91 is also pin-compatible with ConnectCore 93.

[Digi Embedded Yocto](#), Digi's feature-rich Linux distribution with many extensions for embedded product design provides a fully tested, validated and maintained Linux software platform. This helps OEMs lower research and development costs, realize a lower total cost of ownership and streamline time to market.



Hirose AU1 Series - Automotive USB-C Connector

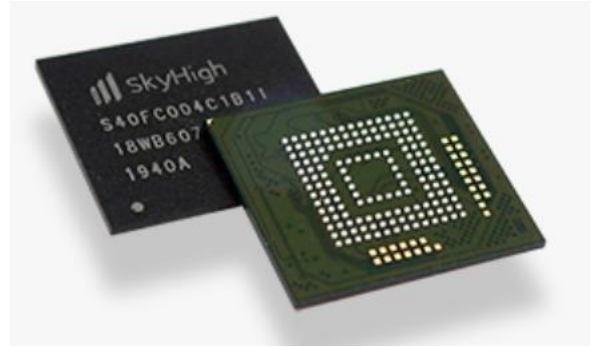
- 1 Utilizes HRS's proven CX Series (USB Type-C connector) at the core
 - 2 Meets automotive requirements for vibration and heat resistance
 - Compliant with USCAR-2 and USCAR-30 standards.
 - 3 CPA (Connector position assurance) unit ensures secure mating.
 - 4 Supports Two Types of Key Code - Standard and A key
 - 5 Support various transmission standards.
 - USB, Display Port, HDMI, etc.
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Nichicon LGA Series

Nichicon has developed and launched the LGA Series of high ripple current snap-in terminal type aluminum electrolytic capacitors with long life to meet the high ripple current requirements of the on-board charger market, which is essential for the EV and PHEV industries.

Based on technology that Nichicon has developed, the LGA series is able to handle high temperatures by using a high-reliability electrolyte and electrode foil that offer stable durability even under high ripple current conditions. The LGA series has better high ripple current tolerance and longer life than the LGW series and better high ripple current tolerance than the LGX series. As a result, the LGA series achieves the highest level for rated ripple current per unit of volume and long life.



SkyHigh Memory 32GB/64GB eMMC

SkyHigh Memory has expanded their family of e.MMC 5.1 NAND Flash to include both 32GB & 64GB densities. These e.MMC products provide a highly efficient NAND flash memory, with an integrated controller and enhanced memory management. The e.MMC 5.1. Product family are offered in Industry standard and small form factor packages.

SkyHigh Memory eMMC NAND Flash is the optimal solution for large data storage in embedded applications in the Communication, Consumer, and Industrial Segments. They offer product longevity to support end customer products throughout their lifetime.
