M2S Tech Q4 2022 Product Highlights

Murata Soil Sensor for Sustainable Agricultural

Murata soil sensors are developed to continuously measure the conditions of many different agricultural environments. The three-in-one package includes sensors for electrical conductivity (EC), moisture (volumetric water content (VWC)), and temperature, and is capable of measuring all three simultaneously in soil and underwater. Specifically, the industry's first-ever nine-electrode EC sensor has multiple measuring patterns that help eliminate uncertainty.

Infineon AIROC™ Wi-Fi 6/6E and Bluetooth® 5.2 combo family

Infineon Technologies is expanding its wireless portfolio of high-performance, reliable and secure offerings. The newly developed AIROC™ brand now includes the industry's first 1x1 Wi-Fi 6/6E and Bluetooth 5.2 combo SoC for the IoT, enterprise and industrial applications, and its first 2x2 Wi-Fi 6/6E and Bluetooth 5.2 combo SoC for multimedia, consumer and automotive applications. The Wi-Fi 6/6E combo solutions operate in the 2.4 GHz, 5 GHz, and the new, greenfield 6 GHz spectrum to deliver robust performance and minimal latency. This makes them ideal for high-quality video and audio streaming applications like gaming consoles, AR/VR, smart speakers, media-strea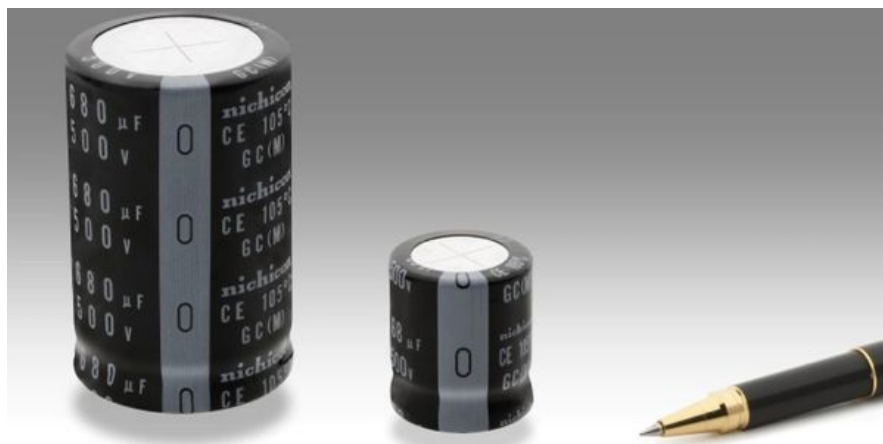ming devices and automotive Infotainment. Applications that require an instant response – like security systems and industrial automation – will also benefit from Infineon's new products.
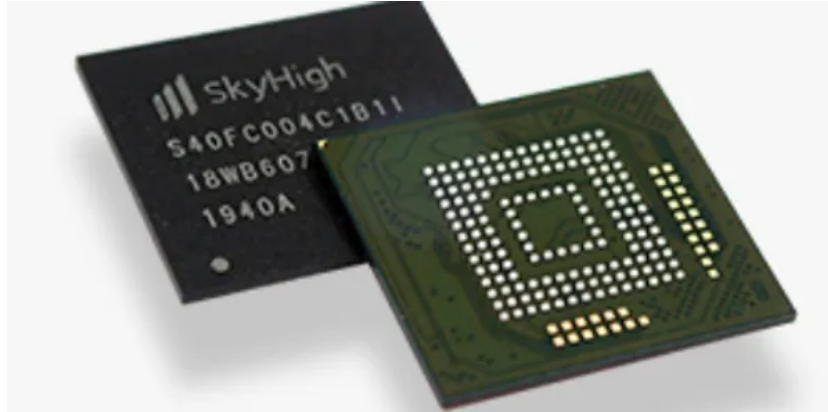
Digi IX20 4G LTE router

Digi IX20 is a full-featured cellular router that scales from general connectivity applications to industrial routing and security. Its flexible power and connectivity options make it a versatile choice for use in industrial infrastructure, digital signage, retail kiosks, service terminals and other critical assets with a need for secure transactions.

The high-performance architecture of the Digi IX20 router provides automatic and software-selectable primary and backup WWAN connectivity over multi-carrier cellular LTE. Digi IX20 supports advanced security (stateful firewall, MAC filtering and VPN), cellular redundancy (Digi SureLink®) and management (SNMP, event logging, analyzer trace and QOS), facilitating use in PCI or NERC-CIP compliant applications. FirstNet Ready™ models are designed to meet the demands of primary responders for critical communications.
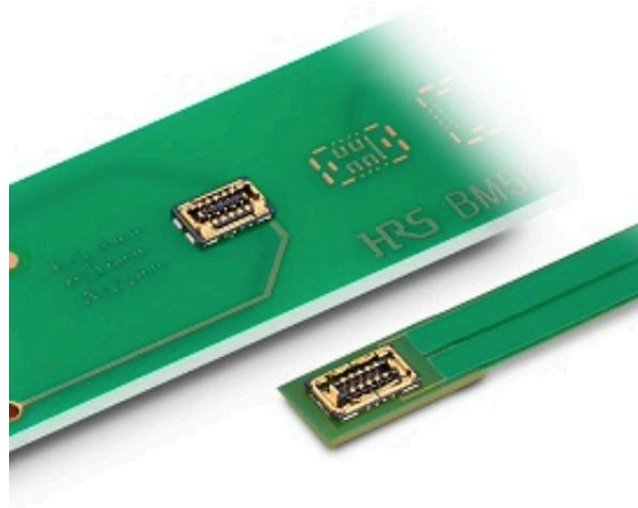

Nichicon LGC Series Electrolytic Caps (Guaranteed for 5,000 Hours at 105°C)

In recent years, there has been a strong demand for more compact server power supplies and switching power supplies. As circuits are integrated, the space inside of power supplies is decreasing resulting in their internal temperatures increasing. This means the large aluminum electrolytic capacitors used in smoothing circuits to be more compact and have a long life. NICHICON has launched the new LGC series to meet these requirements. The series is the industry's smallest, having been reduced in volume by up to 33% from the current LGX series (guaranteed for 5000 hours at 105°C).

SkyHigh Memory 8/16GB eMMC

"SkyHigh Memory offers a family of e.MMC 5.1 NAND Flash and is now expanding on its' 2/4GB offerings to 8/16GB parts in 2022. Samples are currently available for the 8GB chip with 16GB samples coming later this year. These e.MMC products provide a highly efficient NAND flash memory, with an integrated controller and enhanced memory management. The e.MMC 51. Product family are offered in Industry standard and small form factor packages. Our eMMC 5.1 NAND Flash is the optimal solution for large data storage in embedded applications in the Communication, Consumer, and Industrial Segments."

Hirose BM56 Series Multi-RF Compatible FPC-to-Board Connector
0.35mm Pitch, 2.2mm Width, 0.6mm Stacking Height
1. Compact, Multi-RF capable FPC Connector, World's Smallest Width Class
2. Contact Design Ideal for Both Digital and RF Signal
3. Superior RF Signal Transmission
4. Double Shield Enhances EMI Prevention
5. Robust Mating Guides
6. Halogen-free