

COMPUTING PLATFORM

## Wireless, built-in, and Risc-based

Moxa's UC-3100 series computers can be used as edge-field smart gateways for data pre-processing and transmission, as well as for other embedded data acquisition applications.



*Risc stands for Reduced Instruction Set Computer  
(Photo: Moxa)*

The series includes three models, each supporting different wireless options and protocols. The advanced heat dissipation design makes it suitable for use in temperatures ranging from -40 °C to +70 °C. In fact, the Wi-Fi and LTE connections can be used simultaneously in both cold and hot environments, allowing to maximize data pre-processing and data transmission capability in most harsh environments.

In addition, the company's TPM version 2.0 uses a hardware chip to boost data security, making it highly unlikely that hackers will be able to steal data, either remotely or locally.

In order to offer a better user experience with a Moxa [Risc computer](#), the UC-3100 supports a range of software features, allowing to use the suitable configuration based on particular applications. It supports for example the Classical base frame format (CBFF) with 11 identifier bits as well as the Classical extended frame format (CEFF) with 29 identifier bits.

Additionally it features a file system to prevent the system from being bricked due to a firmware upgrade interruption, cyber-security auto-config system compliant with IEC 62443, a software lock to protect applications, Linux OS support, and a 1-GHz Cortex-A8 processor. The series meets the EN 61000-6-2 and EN 61000-6-4 industrial EMC standards.

[CW](#)