

RZ Ecosystem Partner Solution

Microsoft Azure RTOS



Solution Summary

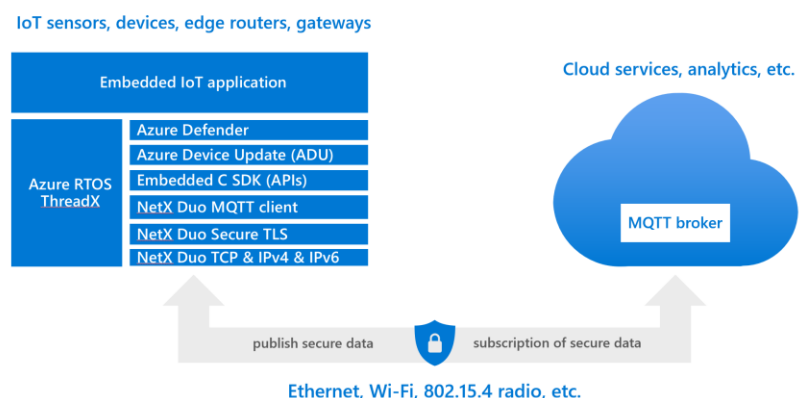
Azure RTOS is an embedded development suite including the small, but powerful ThreadX operating system that provides reliable, ultra-fast performance for resource-constrained devices. It's easy-to-use and market-proven, having been deployed on more than 10 billion devices worldwide. Azure RTOS supports the [Renesas RZ processor portfolio](#) and most popular RZ embedded development tools.

Features/Benefits

- Free production license for RZ Family of MPUs
- Small footprint (Minimal 2KB)
- Fast, deterministic performance (sub microsecond API calls and context switches)
- Comprehensive set of middleware, including FileX, GUIX, NetX, NetX Duo, and USBX
- Functional safety per-certified to IEC 61508 SIL 4, ISO 26262 ASIL D, IEC 62304 Class C
- Advanced technology including SMP multicore support, preemption-threshold, event chaining
- Seamless connectivity to Azure IoT
- Easily leverage cloud services like Azure Defender, PnP, OTA

Diagrams/Graphics

Azure RTOS: Industrial-grade connectivity to the cloud



Target Markets and Applications

- Industrial
- Medical
- Home Automation
- Consumer

<https://www.azure.com/rtos>



Microsoft Azure IoT provides the industry's broadest portfolio of services and capabilities that meets you where you are, from the edge to the cloud, according to your needs and with the requirements from your industry.