

RA Ecosystem Partner Solution

eProsima

RA Family & micro-ROS support



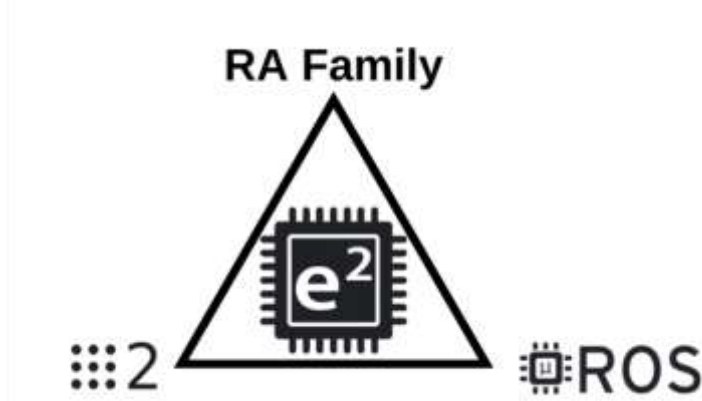
Solution Summary

micro-ROS open source framework connects ROS 2 with the embedded world. This comprehensive solution provides an Eclipse environment that covers the full development cycle with [RA family of MCUs](#). It fully integrates micro-ROS into the RA family, and e² Studio.

Features/Benefits

- RA Family: the reference platform for micro-ROS
 - Bringing the micro-ROS APIs to RA Family MCUs
 - Breaking the boundaries of the ROS 2 ecosystem
 - Extending the range of applications (Industry 4.0, IoT, ...)
- e² Studio & micro-ROS
 - Full coverage of the MCUs SW development cycle
 - FreeRTOS, ThreadX, Bare metal
 - Transports: UDP, UART, USB-CDC, CAN/FD, Wi-Fi transport
- Reducing the time-to-market of MCUs based applications with easy-to-start solutions as Renesas's [EK-RA6M5](#) and [MCK-RA6T2](#) hardware kit.

Diagrams/Graphics



Get micro-ROS support at
renesas_support@eprosima.com



Target Markets and Applications

- Service robot for Logistics
- Defense & Security
- Agriculture and Healthcare

[Renesas - RA Family \(eprosima.com\)](https://www.eprosima.com)

Company name	eProsima
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President	Jaime Martin Losa
Business description	<p>Computer software</p> <p>eProsima, the middleware Experts, is the company behind Fast DDS (the default DDS middleware used by ROS 2 Foxy), the developer of Micro XRCE-DDS (the middleware for eXtremely Resource Constrained Environments) and coordinator of micro-ROS (the official extension of ROS 2 for microcontrollers).</p> <p>Furthermore, eProsima is a member of the Technical Steering Committee of ROS 2, the Object Management Group, the FIWARE and Autoware Foundation and thus combines in-depth knowledge of important influential communities.</p> <p>The company believes in the open source business model and provides solutions especially in the sectors of robotics, automotive, Internet of Things, and critical systems.</p>
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