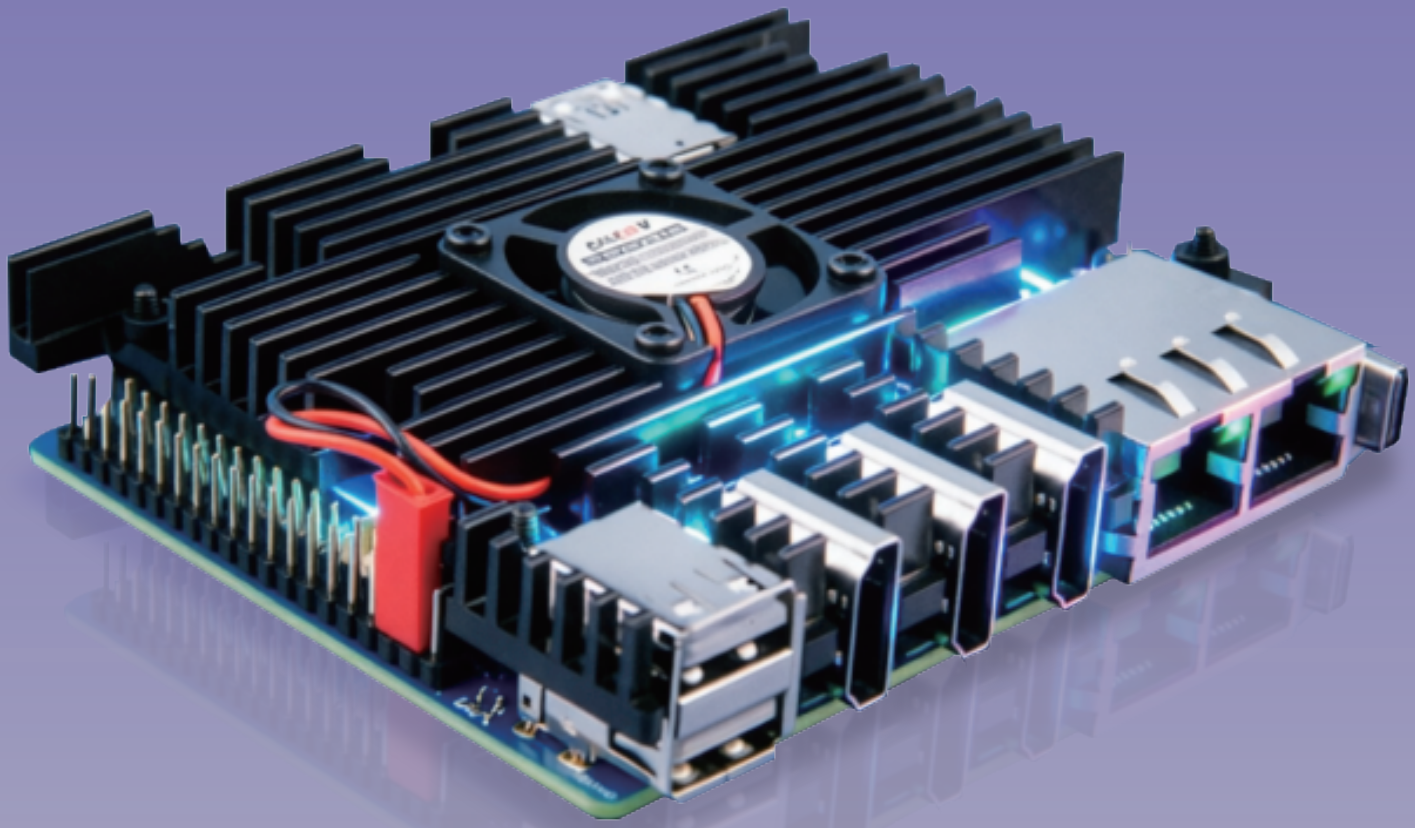
MYACTUATOR®
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Raybot Smartworks
RB-C002 Robotic Cerebellum
RAYBOT



01

High Bandwidth & High Real-Time Parallel Communication Backplane

Equipped with dual 2.5GbE network ports and pre-configured with the PREEMPT_RT real-time kernel and the IgH EtherCAT Master stack, it ensures low-jitter industrial communication for a large number of axes while meeting high-level computing power requirements, guaranteeing stable and reliable operation of complex robotic systems.

02

Ready-to-Use Robot Control Integration Stack

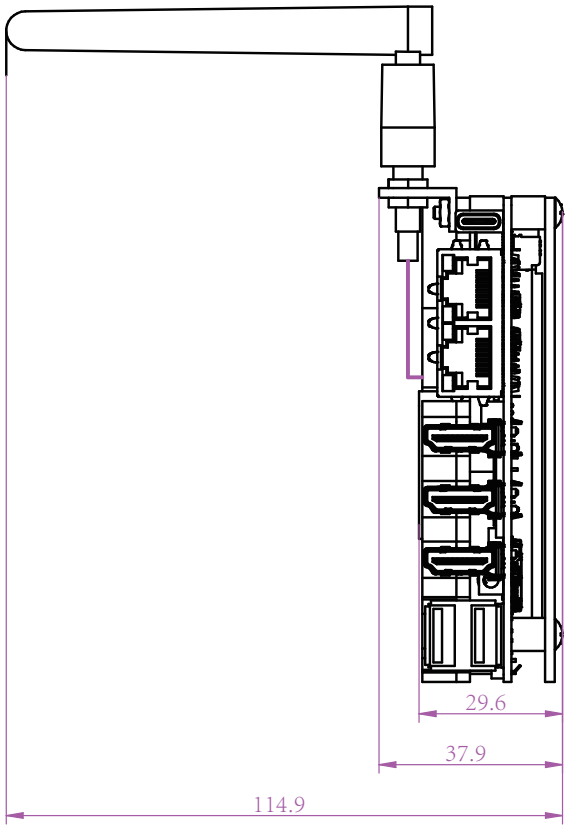
The EtherCAT and ros2_control stacks are pre-integrated, providing a complete software chain from underlying real-time communication to upper-level robot control, significantly reducing system integration and secondary development time.

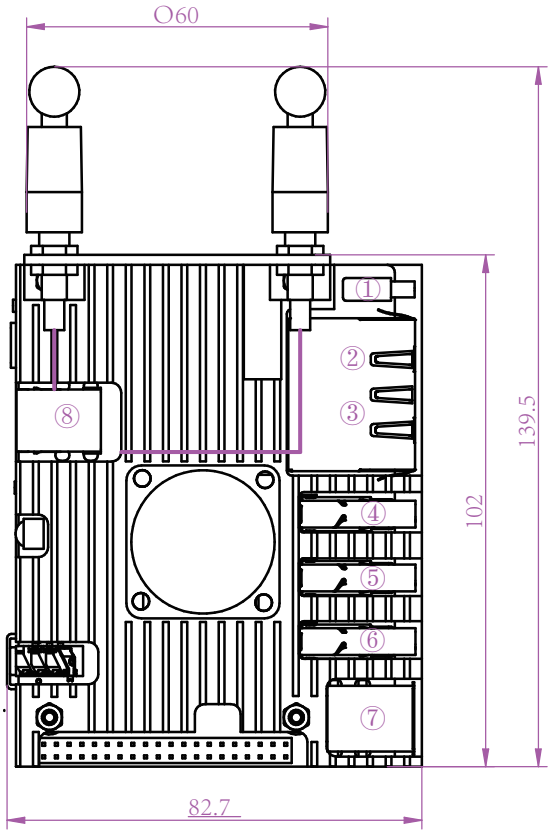
03

Complete Deliverables for Accelerated Deployment

Full deliverables including control software, detailed documentation, interface descriptions, and network topology recommendations are provided to help users get started quickly.

RB-C002 Robotic Cerebellum





Item	Description
Weight	250g
Master Stack	IgH EtherCAT Master
Control Frequency	Up to 4kHz
DC Synchronization	Supported
Slave Type	MyActuator (Pulse Motor)
Supported Operating Systems	Ubuntu22.04
Real-Time System	Ubuntu + PREEMPT_RT
Network Interface	Dual 2.5GbE Ethernet ports
Hardware Platform	Orange Pi5 PLUS Development Board
Main control chip	Rockchip RK3588
Memory	16GB
Storage	64GB sd card
Power Input	DC 5V
Operating Temperature	0°C ~ 50°C
Interface Expansion	USB 3.0, GPIO, UART, I2C, SPI
Software Support	ROS 2, Python, C++, Isaac