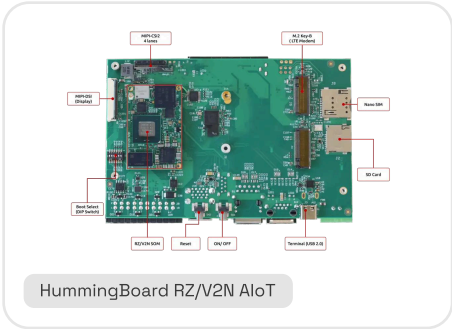


# Production-Ready Physical AI from Prototype to Deployed Fleet



## Built for Where Physical AI Actually Ships

Physical AI is moving fast. Intelligent systems are showing up on factory floors, in conservation zones, across agricultural operations, and along remote perimeters. Teams building these products need a platform they can evaluate quickly and take to production confidently.

SolidRun’s Renesas RZ family is that platform — industrial-grade hardware engineered for real-world deployment, with Avocado OS pre-integrated so the full stack is validated together out of the box.

### The Solution

**SolidRun builds the industrial edge AI hardware:** SoMs, SBCs, sealed sensor platforms, and gateways, all on Renesas RZ silicon.

**Peridio provides the production software layer:** the OS, security, OTA updates, and fleet management.

Together, we replace 12+ months of BSP and fleet infrastructure work with a production stack ready in weeks.

### Where we deploy

**Industrial Automation**

Defect detection, machine vision, and HMI for the factory floor. RS232, CAN-FD, and optional PoE for drop-in integration. Industrial -40°C to 85°C ratings throughout.

**Remote & Off-Grid Deployments**

IP64 ruggedization, optional LTE, and solar-charged operation. Built for agriculture, environmental monitoring, conservation, and perimeter security in places without reliable power or connectivity.

**Smart Cameras & Vision**

On-device inference up to 15 Sparse / 4 Dense TOPS. Native TensorFlow / PyTorch / ONNX. Fleet-wide model updates over the air across thousands of deployed devices.



# Your OS Partner, Not Your OS Problem

Avocado OS integrates with Peridio Core, a turnkey device management platform providing enterprise-grade infrastructure for production deployments:



## Peridio Core (SaaS)

OTA updates with delta compression, A/B rollback, staged rollouts. Fleet dashboard, health monitoring, remote debugging, config management.

## Peridio Core

OTA

Fleet

Observability



## Avocado OS

Production-hardened, embedded Linux runtime. Yocto-based without the Yocto expertise. Secure boot, verified boot, FDE out of the box.

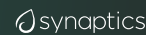
## AVOCADO OS Production-Ready Linux

Vendor Support

Customer Apps

Avocado Linux Runtime

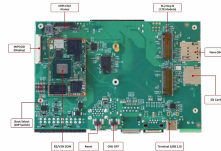
Supported hardware



## Long Term Support (LTS)

Guaranteed stability and security of your fleet for the long haul.

## Vision AI Platforms



Model	RZ/V2N System on Module	HummingBoard RZ/V2N AIoT	SolidSense AIoT	IIOT - 200 - RZ/G2L Gateway
SoC	RZ/V2N	RZ/V2N	RZ/V2N	RZ/V2N
TOPS	15S	15S	15S	15S
Sensor	8.4MP IMX678	Modular 4K	Bring-your-own sensor	Bring-your-own sensor
Rating	IP64	Industrial-grade	47x30mm	47x30mm

## Stop Building Infrastructure. Start Shipping Products.

You didn't start your company to maintain Linux infrastructure. You started it to build something that works in the physical world. Let's get you back to that.



Preferred Partner



Registered Partner

Learn more  
or get started

