

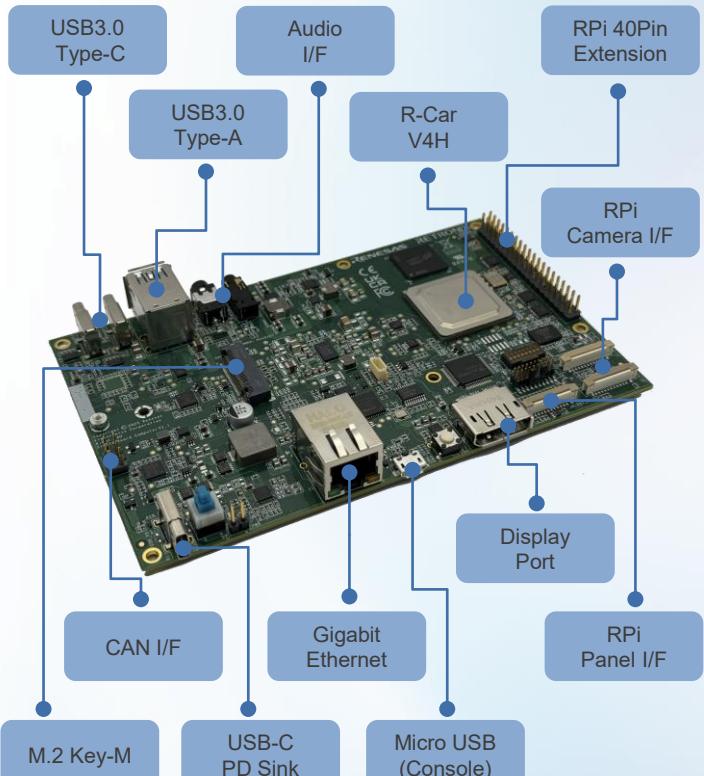
Integrated development environment for AI services and low-cost compact board

R-Car V4H Sparrow Hawk

Core benefits

- Ready to run OSS based software and start development
 - Get started instantly with OSS based SW supporting Yocto & Debian, available FoC (Free Of Charge) with just Click though agreement
- Unleash 30TOPS AI power in a compact board design
 - Experience up to 30 TOPS range AI performance on a compact board (146 × 90 mm) and fully compatible with Raspberry Pi HAT.
- Affordable and accessible hardware for everyone
 - Low-cost board available through global distributors and High-volume production ensuring stable supply and large inventory

HW Features



SW Features

Supported		Not supported yet		
Debian 13		Yocto v5.0		Zephyr (Dom0)
Linux 6.12		Linux (DomD/U)		Android (DomA)
u-boot 2026.01		Xen Hypervisor		

Board variants	Basic Kit		Complete Kit	
DDR	8G	16G	8G	16G
Sparrow Hawk	✓	✓	✓	✓
Argon FAN			✓	✓
Micro USB cable			✓	✓
32GB Micro SD card			✓	✓

HW Features		SW Features	
CPU	4x Arm® Cortex®-A76 (81K DMIPS) 3x Arm® Cortex®-R52 (25K DMIPS)	Yocto BSP	Yocto Project 5.0.xx
CNN-IP	30 TOPS DENSE	Debian based BSP	Debian 13
GPU	PowerPV AXM-8-256 (150 GFLOPS)	Linux kernel	V6.12.xx
DRAM	LPDDR5 6400Mbps 8GB / 5500Mbps 16GB	u-boot	2026.01
Flash Memory	64MB QSPI	Trusted Firmware-A	V2.14.0
Camera I/F	2x Raspberry Pi Camera	Please see the details here : https://rcar-community.github.io/Sparrow-Hawk/	
Display	1x DP, 1x DSI	<ul style="list-style-type: none"> • Board / SW info • Getting started • Get the board 	
Ethernet AVB	1 Port (1Gbps)		
Debug Serial	2 Port		
Audio	In/Out, In		
PCIe	1x M.2 Key-M (x2 lane)		
USB3.0	2x USB type-A, 2x USB type-C		
CAN-FD	2 Port		
Removal Media	1x MicroSD		
Extensions	Raspberry Pi 40-Pin CN		
Power	USB PD 20V		



スパロー ホーくん



Where to buy :

<http://www.shimafuji.co.jp/en/products/2207>

- Web page of Shimafuji Electric Incorporated
- Contact : info@shimafuji.co.jp