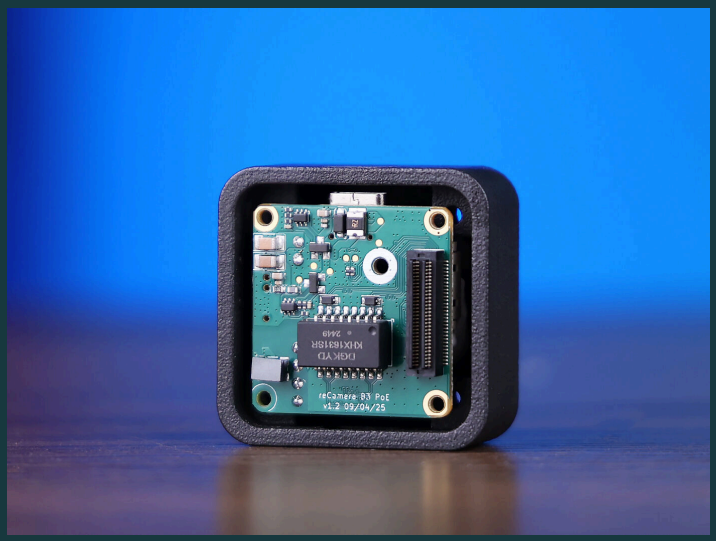
seeed studio

INDUSTRIAL PRODUCT DATASHEET

reCamera 2002 Base Board with PoE

Open-source PoE base board for reCamera 2002 enabling stable PoE communication and GPIO integration for edge AI applications like real-time heatmap dashboards, remote wireless monitoring, parking management, and...

SKU	UPDATED	PRICE
100074316	2026-10-16 10:52:42	$29.90(Excl. VAT)



Overview



The reCamera 2002 Base Board with PoE is an open-source base board designed to be used with a reCamera Core Board and Sensor Board, providing stable communication via PoE and GPIO integration with other systems. It supports assembling reCamera units or individual core boards with the GC2053 Sensor Board, and can be used in applications such as real-time heatmap dashboards with Grafana, AI remote wireless monitoring, AI parking management, and gesture-based gameplay.

Key Features

Selection Guide

reCamera series currently have two base boards B101 and B3_PoE. B101

is the default Sensor Board for reCamera 2002(w) 8/64GB. These two boards allow you to choose freely based on your application needs.

B101 — Choose when you need:

- SD Card for extra storage

B3_PoE— Choose when you need:

- Stable communication with POE
- Integrating with other systems via GPIO

reCamera Base Board with PoE must be used with Core Board and the Sensor Board. You may purchase any reCamera model, for example the reCamera 2002 (W) 8/64GB, and install GC2053 Sensor Board onto the finished reCamera unit to extend functionality.

Alternatively, you may purchase the Core Board and Sensor Board separately and assemble a reCamera yourself.

You may choose reCamera units:

reCamera 2002w 64GB- Open Source AI Camera

reCamera 2002 64GB-Open Source AI Camera

reCamera 2002w 8GB-Open Source AI Camera

reCamera 2002 8GB-Open Source AI Camera

Or individual core boards:

reCamera 2002w Core Board 64GB with Aluminium Frame reCamera 2002 Core Board 64GB with Aluminium Frame reCamera 2002w Core Board 8GB with Aluminium Frame reCamera 2002 Core Board 8GB with Aluminium Frame

with

reCamera 2002 Sensor Board GC2053

reCamera's dimensions and design are fully open source. You are free to **design your own sensor board and base board**. You may also submit feature requests - feel free to reach out to us on GitHub: **GitHub · Where software is built**

Product Gallery

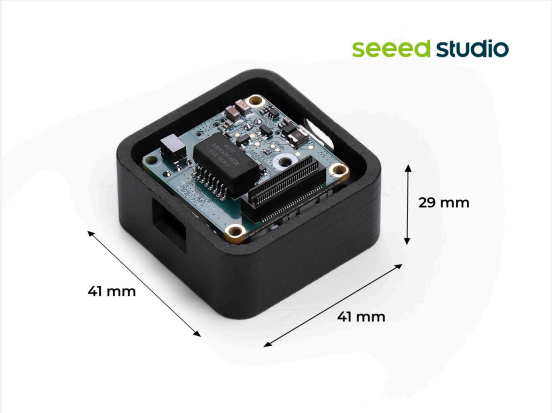












Specification

Base Board	B101 (default for reCamera 2002)	B3_POE (default for reCamera PoE)

I/O	Ethernet	100Mbps	100Mbps with PoE
	USB	USB Type-C(2.0)	
	Button	1x Reset Button, 1x Boot Button	
	Fill Light	0.3w White Light	/
	LED Indicator	1x Power indicator, 1x eMMC status indicator, 1x CPU status(User LED)	
	I/O Port	/	3 I/O Ports 487,488,490
Power		5V/1A USB Type C	
Support SD Card		Yes	/

Applications

- **Integration of Real-time Heatmap with Grafana Data Dashboard:** The project conducts target detection using the YOLO11n model built into reCamera. It performs fuzzy processing on personnel targets and displays a heat map effect. All of this is handled locally within reCamera! And reCamera will send the detected data to the locally running Influxdb database. Then, Grafana reads the data from the Influxdb database to display real-time data dashboards.
- **AI Remote Wireless Monitoring System Based on reCamera and Wifi Halow:** An AI-based remote wireless monitoring system using Wi-Fi HaLow. It combines edge AI vision with long-range, low-power wireless communication to enable real-time detection, data transmission, and monitoring in remote or infrastructure-limited environments such as farms, factories, and outdoor sites. Video link: https://www.linkedin.com/posts/seeedstudio_howtobuildanaicamera-outdoor-wifi-activity-7401880305940553729-R57w?utm_source=share&utm_medium=member_desktop&rcm=ACoAAGCDEqUBKdDsqK6EqGXClNocxAAtw3IA_T0
  Tutorial: https://wiki.seeedstudio.com/ai_remote_wireless_monitor_system_with_wifi_haLow/
- **AI Parking Management with reCamera:** This project uses Seeed's reCamera to detect parking slot occupancy in real-time. It features multi-frame stabilization to avoid flickering and displays results (free/occupied counts) directly on the video stream. The entire workflow runs automatically on the device via a pre-configured Node-RED setup.
  Tutorial: https://wiki.seeedstudio.com/ai_parking_slot_monitoring_demo_with_recamera/
- **Play Subway Surfers with reCamera HQ PoE:** Using its built-in pose detection model, reCamera can recognize your hand and body movements in real time and convert them into game actions, no controllers, no wearables, just pure gesture play. Wave your hand to jump, raise your arm to attack, or lean left and right to dodge obstacles. Video link: https://www.linkedin.com/posts/seeedstudio_howtobuildanaicamera-recamera-yolo11n-activity-7399730949401526272-UdZ4?utm_source=share&utm_medium=member_desktop&rcm=ACoAAGCDEqUBKdDsqK6EqGXClNocxAAtw3IA_T0
  Tutorial: https://wiki.seeedstudio.com/use_the_motion-sensing_function_of_recamera_to_play_games/

Part List

reCamera Base Board with PoE	x1
Ethernet Cable	x1
6 Pin Cable	x1
plastic Cover	x1
M2x10 screw	x4

Compliance & Logistics

HSCODE	8529904900
USHSCODE	8525895050
UPC	
EUHSCODE	8517600000
COO	CHINA

Resource Links

- https://www.seeedstudio.com/reCamera-2002-Base-Board-PoE-p-6559.html
- Data Sheet
- reCamera Flyer
- reCamera Flyer - CN

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