

Fanless Embedded LPU

RXW-IC2712-FL



PRODUCT OVERVIEW

The **RXW-IC2712-FL** is a compact fanless industrial edge computing unit developed for reliable data processing, automation and intelligent monitoring applications. Its durable aluminium housing and efficient passive-cooling design support stable, quiet and maintenance-friendly operation. The system provides dual 1 Gigabit LAN, HDMI, USB, COM, M.2 and SATA connectivity for flexible integration with cameras, sensors, displays and industrial equipment. With wide DC power input, multiple mounting options and extended-temperature operation, it is suitable for video analytics, industrial automation, smart transportation, surveillance, machine vision and edge-AI deployments.

PRODUCT HIGHLIGHTS

- **Fanless Cooling:** Quiet and maintenance-free operation.
- **Rugged Housing:** Strong aluminium enclosure for industrial use.
- **Edge Processing:** Supports real-time local data processing.
- **Dual 1G LAN:** High-speed network connectivity.
- **Dual Display Port:** Supports multiple display connections.
- **Fast USB Ports:** USB 3.2 Gen 2 device connectivity.
- **COM Interface:** Supports RS-232/ RS-422/ RS-485.
- **Flexible Storage:** M.2 NVMe and SATA storage support.
- **Wide DC Input:** Operates with 12V–24V DC power.
- **Extended Temperature:** Reliable operation from -20°C to +60°C.
- **Industrial Applications:** Suitable for automation, surveillance and smart infrastructure.

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SPECIFICATION

PROCESSOR PLATFORM	
Processor*	Intel® Core™ Ultra 5 Series Processor (225H/ 225)
MEMORY CONFIGURATION	
Memory Type	Dual-Channel DDR5, 6400 MHz
Maximum Capacity	Up to 96GB (48GB per DIMM)
Memory Slots	2 × 262-Pin SO-DIMM
GRAPHICS	
Graphics Controller	Intel® Integrated Graphics
HDMI Output	HDMI 2.1 TMDS Maximum Resolution: 4096 × 2160 @ 60Hz
Display Port Output	DisplayPort 2.1 / 1.4a, DP++ Maximum Resolution: 4096 × 2160 @ 60Hz
EXPANSION	
M.2 Interface	1 × M.2 Key-E 2230 with PCIe x1, USB 2.0 and CNVi for Wireless Connectivity
AUDIO	
Audio Controller	Realtek High-Definition Audio
NETWORK	
Ethernet Controller / Speed	LAN 1: 10/100/1000 Mbps, Supports vPro LAN 2: 10/100/1000 Mbps
Network Connectors	2 × RJ45

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PROCESSOR PLATFORM	
AUDIO PORT	1 x Headphone & Microphone Combo Jack
COM PORT	1 x COM Port (RS-232/422/485)
I/O PORTS	
HDMI OUTPUT	2 x HDMI 2.1
ETHERNET PORTS	2 x 1 Gigabit LAN
USB PORTS	4 x USB 3.2 Gen 2 4
DC INPUT JACK	1 x DC Input Jack
STORAGE OPTIONS	
M.2 SLOTS	2 x M.2 Slots with PCIe Gen4 x4 SSD Support
SATA INTERFACE	1 x SATA 3.0 (6.0 Gb/s)
POWER INPUT	
INPUT VOLTAGE	12V–24V DC Input
ENVIRONMENTAL CONDITIONS	
OPERATING TEMPERATURE	–20°C to +60°C with 0.5–0.8 m/s Airflow
STORAGE TEMPERATURE	–40°C to +85°C
OPERATING HUMIDITY	5%–90% RH
STORAGE HUMIDITY	5%–90% RH
MECHANICAL DETAILS	
ENCLOSURE MATERIAL	Aluminium Housing
ADDITIONAL DETAILS	
CERTIFICATIONS	CE, FCC, RoHS, BIS

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