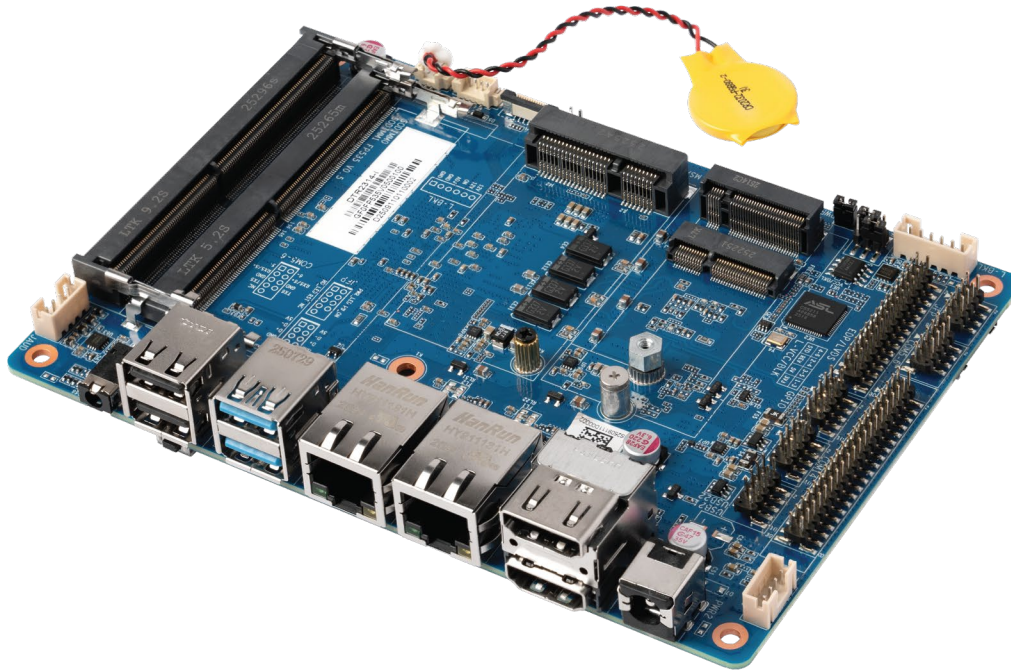


# FP535

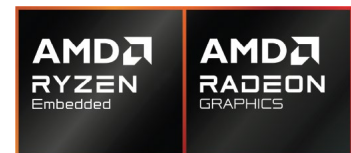
## AMD Ryzen™ Embedded R2314 Processor based Single Board Computer



### Features

- CPU: AMD Ryzen™ Embedded R2314 Processor
- Memory: Dual Channel SO-DIMM DDR4 up to 64GB
- GPU: AMD Radeon™ Graphics, displays via 2xHDMI, eDP/LVDS
- Ethernet: 2xRTL8111H, 10/100/1000Mbps
- Storage: mSATA, M.2 Key B for SSD/4G/5G+SATA FPC(Colay)
- Expansion: M.2 Key E for WiFi & BT
- Power: 9V-35V DC-IN

**AMD**  
together we advance\_



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## Introduction

The FP535 is a compact 3.5" single board computer powered by the AMD Ryzen™ Embedded R2314 processor, delivering 4 cores and 4 threads with clock speeds up to 3.5 GHz. With integrated AMD Radeon™ Graphics, dual HDMI 2.0, and eDP/LVDS display support, it is designed to handle multi-display digital signage, industrial control, and edge computing applications with ease. Its AMI UEFI BIOS, robust hardware monitoring, and wide operating temperature range of -20°C to 60°C ensure stability and reliability in demanding environments.

Engineered for flexibility, the FP535 supports up to 64 GB DDR4 dual-channel memory and offers versatile expansion options including mSATA, M.2 (Key E for Wi-Fi/Bluetooth, Key B for SATA SSD/4G/5G), and a SIM slot for mobile connectivity. It also integrates rich I/O with 6 COM ports, 2 Gigabit Ethernet ports (RTL8111H), 2 USB 3.2, 5 USB 2.0, and TPM 2.0 security.

With its 9-35V DC-IN wide-range power input, rugged design, and OS compatibility with Windows 10/11 and Linux 64-bit, the FP535 is an ideal solution for industrial automation, IoT, and embedded computing applications.



H/W Monitor



Watchdog



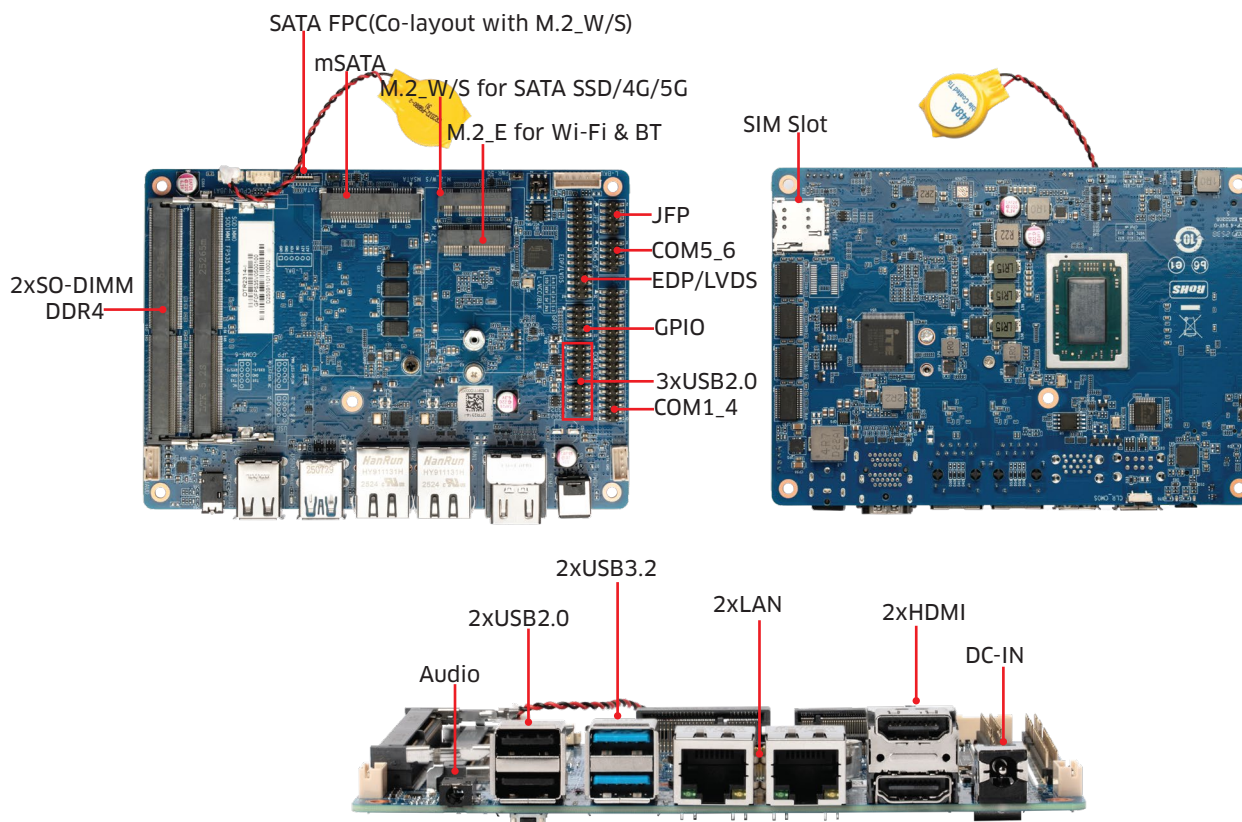
GPIO



Brightness



## I/O Interfaces

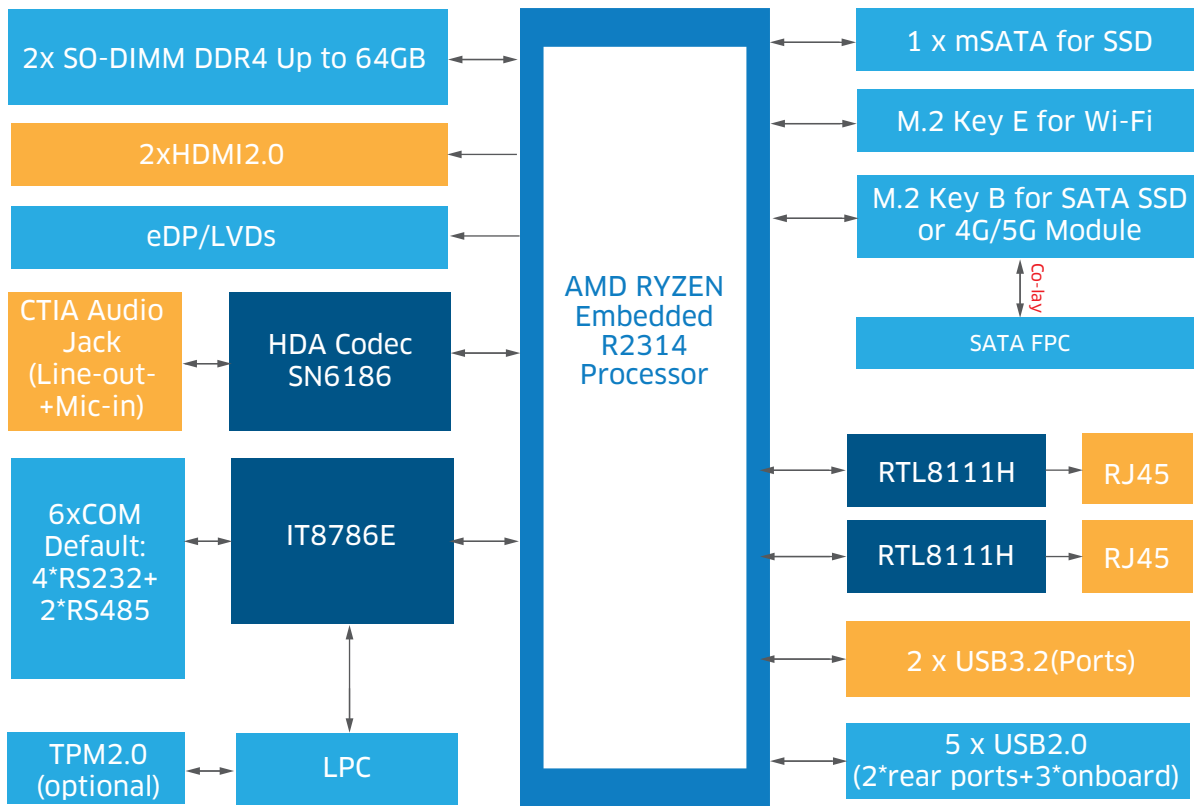


## Technical Specifications

Processor	CPU	AMD Ryzen™ Embedded R2314
	Total Cores/Threads	4C/4T
	Base Frequency	2.10GHz
	Max Frequency	3.50GHz
	Total L2 Cache	2MB
	Total L3 Cache	4MB
	TDP	15W
	GPU	AMD Radeon™ Graphics
Memory	BIOS	AMI UEFI BIOS
	Type	Dual Channel SO-DIMM DDR4
Display	Max. Capacity	64GB
	Graphics	Integrated Graphics depends on the CPU model, see GPUs
Ethernet	Display via	2 x HDMI2.0, 1 x eDP/LVDS
	Controller	2x RTL8111H
Audio	Speed	10/100/1000Mbps
	Interface	2xRJ45
	Wake on LAN	Yes
	Audio Codec	SenaryTech SN6186
Hardware Monitoring	Interface	1xCTIA Audio Jack, Line_out+Mic_in in one, supports power amplifier
		CPU system temperature, on-board DC-in voltage, watchdog, auto power on
Storage	mSATA	1 x mSATA for SSD
Expansion	M.2	1 x M.2 Key E for 2230 Wi-Fi & BT Module
	M.2_SW5G	1 x M.2 Key_B for 2242 SATA SSD/3042 4G/ 3052 5G
	SATA3.0	1 x SATA3.0 FPC co-layout with M.2 Key B Slot
	SIM	1 x SIM Slot
I/O Interface	COM	6 x COM: default 4*RS232+2*RS485
	USB3.2	2 x USB3.2(rear ports)
	USB2.0	5 x USB2.0(2*rear ports+3*onboard)
	TPM2.0	optional
Dimension	Size	146 mm x 102mm
	Form Factor	3.5" SBC
Power	Standard Port	9V-35V DC-IN
	Peripheral Input	For Fan and SATA
	LED Indicator	Power Indicator
Temperature	Operating Temp.	-20°C to 60°C
	Storage Temp.	-40°C to 80°C
Operating System		Win10/11 64bit, Linux 64bit

\* All specifications and photos are subject to change without notice.

## Functional Block Diagram



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