

1ST-IXH-FP535

Fanless Industrial Computer

with AMD Ryzen™ R2314 CPU, 2x LAN, 6x COM, 8x USB, 2x HDMI™



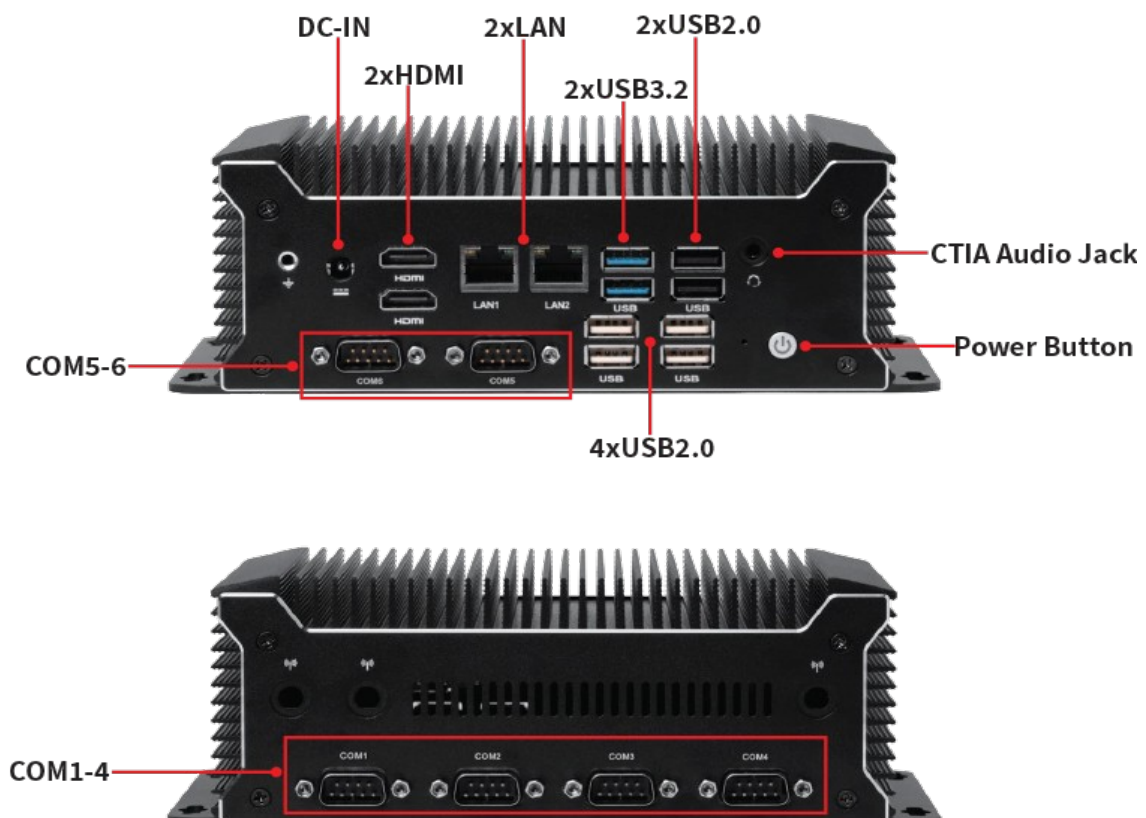
- Onboard AMD Ryzen™ Embedded R2314 CPU
- GPU: AMD Radeon™ Graphics
- 2x SO-DIMM DDR4 up to 64GB
- Multiple display: 2x HDMI™, 1x eDP/LVDS
- Storage: M.2 Key B for SSD/4G/5G or SATA FPC
- Rich I/O ports: 2x USB3.2, 6x USB2.0, 2x LAN (10/100/1000Mbps), 6x COM
- Expansions: mSATA for SSD, M.2 Key E for WiFi & Bluetooth
- Fanless design
- 9~35V DC Input



The 1ST-IXH-FP535 is a compact fanless embedded system. Built with 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 1ST-IXH-FP535 supports up to 64 GB DDR4 dual-channel memory and offers versatile expansion options including mSATA, M.2 (Key E for WiFi/Bluetooth, Key B for SATA SSD/4G/5G), and a SIM slot for mobile connectivity. It also integrates rich I/O with 6x COM ports, 2x Gb Ethernet ports (Realtek® RTL8111H), 2x USB 3.2, 6x USB 2.0, and optional 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 system is an ideal solution for industrial automation, IoT, and other embedded computing applications.



Items		Descriptions
Processor	CPU	AMD Ryzen™ Embedded R2314 CPU, 4 Core, 4 Theads, 12-35W TDP
	Base Frequency	2.1 GHz
	Max Frequency	3.50 GHz
	Cache	2 MB L2, 4 MB L3
	GPU	AMD Radeon™ Graphics
	BIOS	AMI UEFI BIOS
Memory	Type	2x channel DDR4 SO-DIMM
	Max Capacity	64 GB
Display	Graphics	Integrated Graphics depends on the CPU model, see GPU
	HDMI™ 2.0	2x
	eDP/LVDs	1x
	Multiple display	HDMI™ and eDP/LVDs
Ethernet	Speed	10Mbps/100Mbps/1000Mbps
	Interface	2x RJ45
	Controller	Realtek® RTL8111H
	Wake on LAN	Yes
Audio	Audio codec	SenaryTech SN6186
	Interface	1x CTIA 2-in-1 Audio Jack, supports power amplifier
Storage/ Expansion	mSATA	1x for SSD
	SATA3.0	1x FPC co-layout with M.2 Key B Slot
	M.2 Key B	1x M.2 Key B for 2242 SATA SSD or 3042 4G or 3052 5G
	M.2 Key E	1x M.2 Key E for 2230 WiFi & Bluetooth
	SIM	1x Internal SIM slot
System I/O	Front Panel I/O	2x COM RS485 2x LAN 2x USB3.2 6x USB2.0 2x HDMI™ 1x DC-IN
	Rear Panel I/O	4x COM RS232 3x Jack Antennas
	Internal I/O	GPIO optional: 8-bit TPM2.0 optional
Power	Standard port	9~35V DC-IN/Phoenix 3-pin optional
Hardware Monitoring		CPU system temperature, on-board DC-IN voltage, watchdog, auto power on
Operating Temperature		-20°C ~ 60°C non condensing
Storage Temperature		-40°C ~ 80°C
Dimensions (LxWxH)		205mm x 125mm x 70.5mm
Operating System		Supports Win 10/11 64 bit, Linux 64 bit

Ordering Information

Part No.	Descriptions
1ST-IXH-FP535	Supports AMD Ryzen™ Embedded R2314 CPU, AMD Radeon™ Graphics, DDR4 SO-DIMM up to 64 GB, 9~35V DC-IN

