DATASHEET

MUC-FP551

AMD Ryzen™ 3000 Series/Ryzen™ Embedded R2000 Series with Radeon™ Graphics based Ultra-Compact Mini PC



Features

- CPU: AMD Ryzen™ 3000 Series/Embedded R2000 Series
- Memory: Dual Channel DDR4 for Memory up to 64GB
- Display: AMD Radeon™ Graphics, Displays via 2xHDMI, USB-C
- I/O Ports: 2 x USB-C, 2 x USB3.2, 2 x USB2.0, 1 x LAN(1.0GbE), Audio
- Storage: M.2_Key M for 2280 NVMe, M.2_Key M for 2242 NVMe/SATA
- Expansion: M.2_Key E for 2230 WiFi
- Power: 19V DC-in

AMD
together we advance_

AMD RYZEN Embedded | AMD RADEON GRAPHICS

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Introduction

The MUC-FP551 is an ultra-compact Mini PC powered by AMD Ryzen™ Embedded R2000 Series and Ryzen™ 3000 Series processors with integrated AMD Radeon™ Graphics, delivering reliable performance for commercial and embedded computing applications in an extremely compact form factor. Measuring only 112.4 mm × 112.4 mm × 35.5 mm, the system supports dual-channel DDR4 memory up to 64GB and offers flexible storage expansion through dual M.2 slots for NVMe and SATA SSDs, making it ideal for space-limited deployments requiring efficient performance and modern connectivity.

Designed for compact multi-display and professional computing environments, the MUC-FP551 features dual HDMI outputs, a full-function USB-C port supporting USB 3.2 Gen2, DisplayPort, and power delivery, Gigabit Ethernet, multiple USB interfaces, and wireless expansion support via M.2 Key E. With active cooling, support for Windows 10/11 and Linux operating systems, and a lightweight ultra-compact chassis, the MUC-FP551 is well suited for digital signage players, office mini PCs, self-service terminals, education systems, and other commercial edge computing applications where compact size and flexible connectivity are essential.

Linux™

ubuntu Linux

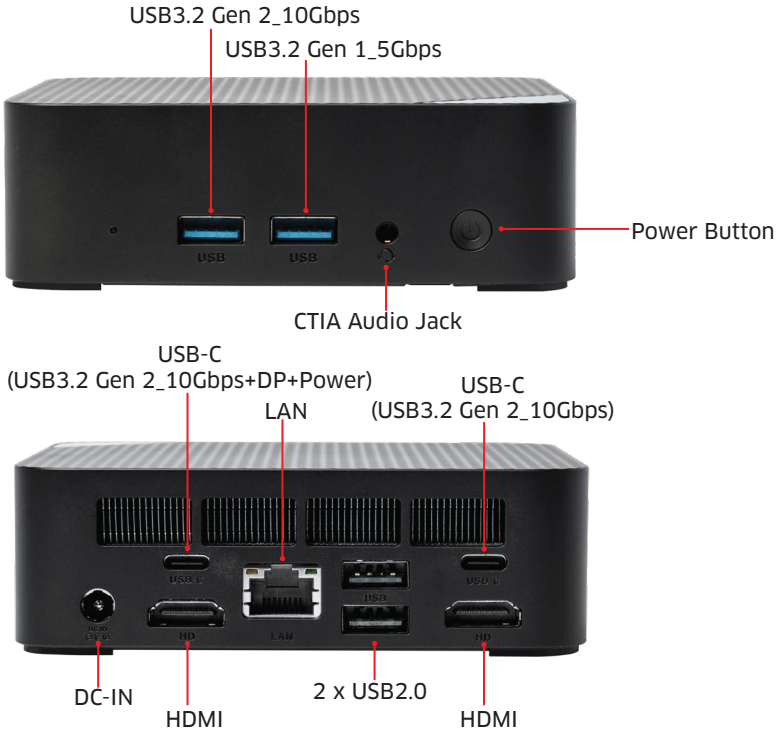
Windows

H/W Monitor

Watchdog

HDMI™ HIGH-DEFINITION MULTIMEDIA INTERFACE

I/O Interfaces

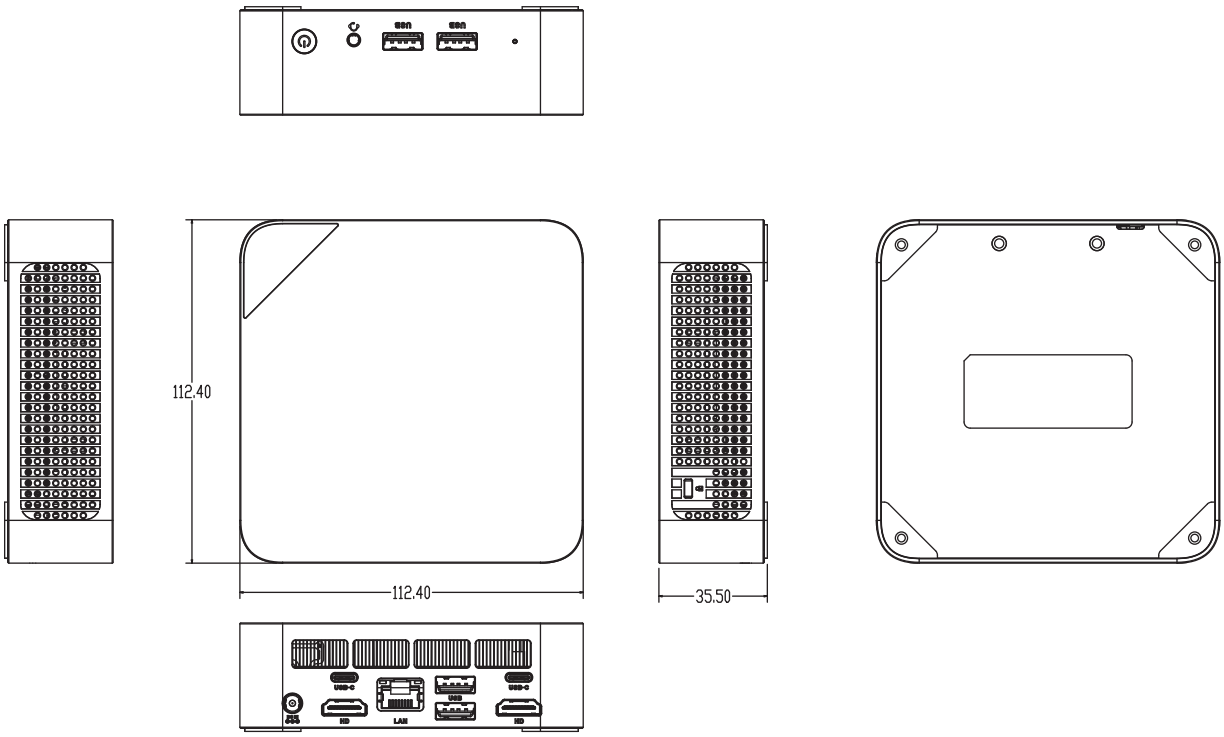


Technical Specifications

Processor	**AMD Ryzen™ Embedded/5/7**	**R2314**	**R2514**	**3500U**	**3700U**
	Total Cores/Threads	4C/4T	4C/8T	4C/8T	4C/8T
	Base Frequency/Clock	2.1GHz	2.1GHz	2.1GHz	2.3GHz
	Max Frequency/Boost Clock	3.5GHz	3.7GHz	3.7GHz	4GHz
	Total L3 Cache	4MB	4MB	4MB	4MB
	cTDP	15-35W	15-35W	15-35W	15-35W
	BIOS	AMI UEFI BIOS			
Memory	Type	Dual Channel SO-DIMM DDR4			
	Max. Capacity	64GB			
Display	GPU	Integrated AMD Radeon™ Graphics			
	Interface	2 x HDMI, 1 x USB-C(Full-functions)			
Ethernet	Controller	Realtek RTL8111H			
	Speed	10/100/1000Mbps			
	Interface	1 x RJ45			
Audio	Audio Codec	SenaryTech SN6186			
	Interface	1 x CTIA 2in1 Audio Jack(Line-out+Mic-in)			
Storage & Expansion	M.2_N	1 x M.2 Key M Slot for 2280 NVMe(PCIe x4) SSD			
	M.2_N/S	1 x M.2 Key M Slot for 2242 NVMe/SATA SSD			
	M.2_E	1 x M.2 Key E Slot for 2230 Wi-Fi&Bluetooth Module			
Other I/O	USB3.2	2 x USB3.2 Type-A ports (1*USB 3.2 Gen 1_5Gbps,1*USB 3.2 Gen2_10Gbps)			
	USB2.0	2 x USB2.0 Type-A ports			
	USB-C	2 x USB-C Type-C ports			
		(1*Type-C port supports USB3.2 Gen 2_10Gbps+DP+Power)			
		(1*Type-C port supports USB3.2 Gen 2_10Gbps)			
	TPM	Optional			
Dimension	Size	112.4 mm x 112.4 mm x 35.5mm (L x W x H)			
	Weight	N.W. Barebone: 0.308KG			
Power	Standard Port	19V DC-IN			
Temperature	Operating Temp.	0°C to 50°C			
	Storage Temp.	-20°C to 70°C			
Cooling		Active			
Operating System		Windows10/11 64bit, Linux 64bit.			

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

Dimension(in mm)



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