

CXFP- 10

AMD Ryzen Processors based Fanless Embedded PC with 4 DP



Features

- CPU: Ryzen™ 5 2500U and Ryzen™ Embedded V1605B
- Memory: Dual channel SO-DIMM DDR4 up to 32 GB
- Display: Display via 4xDP
- Ethernet: 10/100/1000Mbps
- Storage: SATA3.0, M.2
- Expansion: PCIe 4X, PCIe1X, M.2 for WiFi
- Power: 12V DC input



Introduction

The Maxtang CXFP-10 embedded PC is based on the AMD Ryzen™ 2500U (quad-core) and V1605B (quad-core) and provides a complete PC platform with high performance. Coming from the embedded V1000 processor family and mobile processor family, these CPUs combine the incredible performance of the pioneering “Zen” architecture and “Vega” GPU in a single chip with thermal design power (TDP) as low as 12W/15W. It supports four independent 4K display, in addition to dual-channel SO-DIMM DDR4 memory.

Features dual 1-Gigabit Ethernet controllers, and M.2 expansion for Wi-Fi and SSD modules, optional TPM for added security. Rich interfaces as 4x USB, 2xLAN, 1 x Mic-in and 1 x Line-out, catering to most requirements in the market. The CXFP-10 is an ideal solution for applications requiring a high-speed communication front-end like a mini-server or high-resolution display products like electronic gaming machines, medical imaging, interactive digital signage, thin clients, or PDS terminals.



H/W Monitor



Watchdog

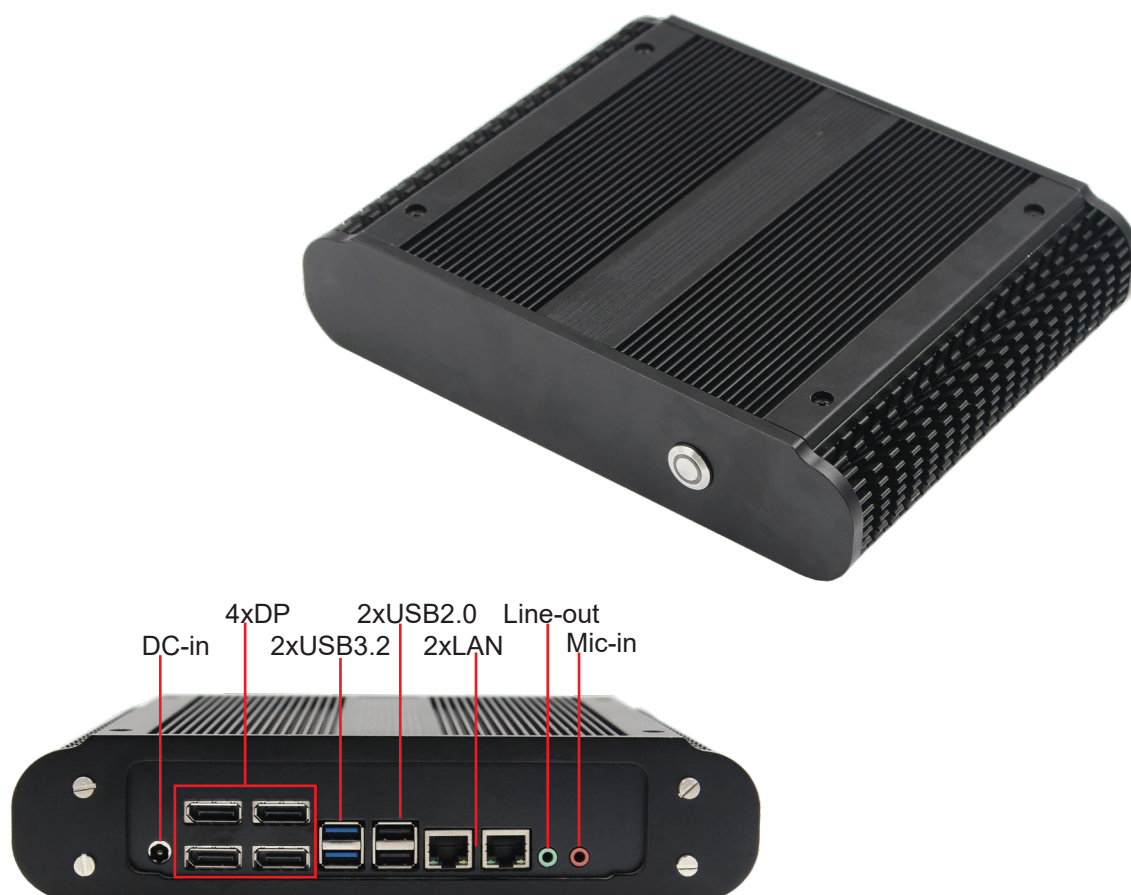


GPIO



Brightness

I/O Interfaces

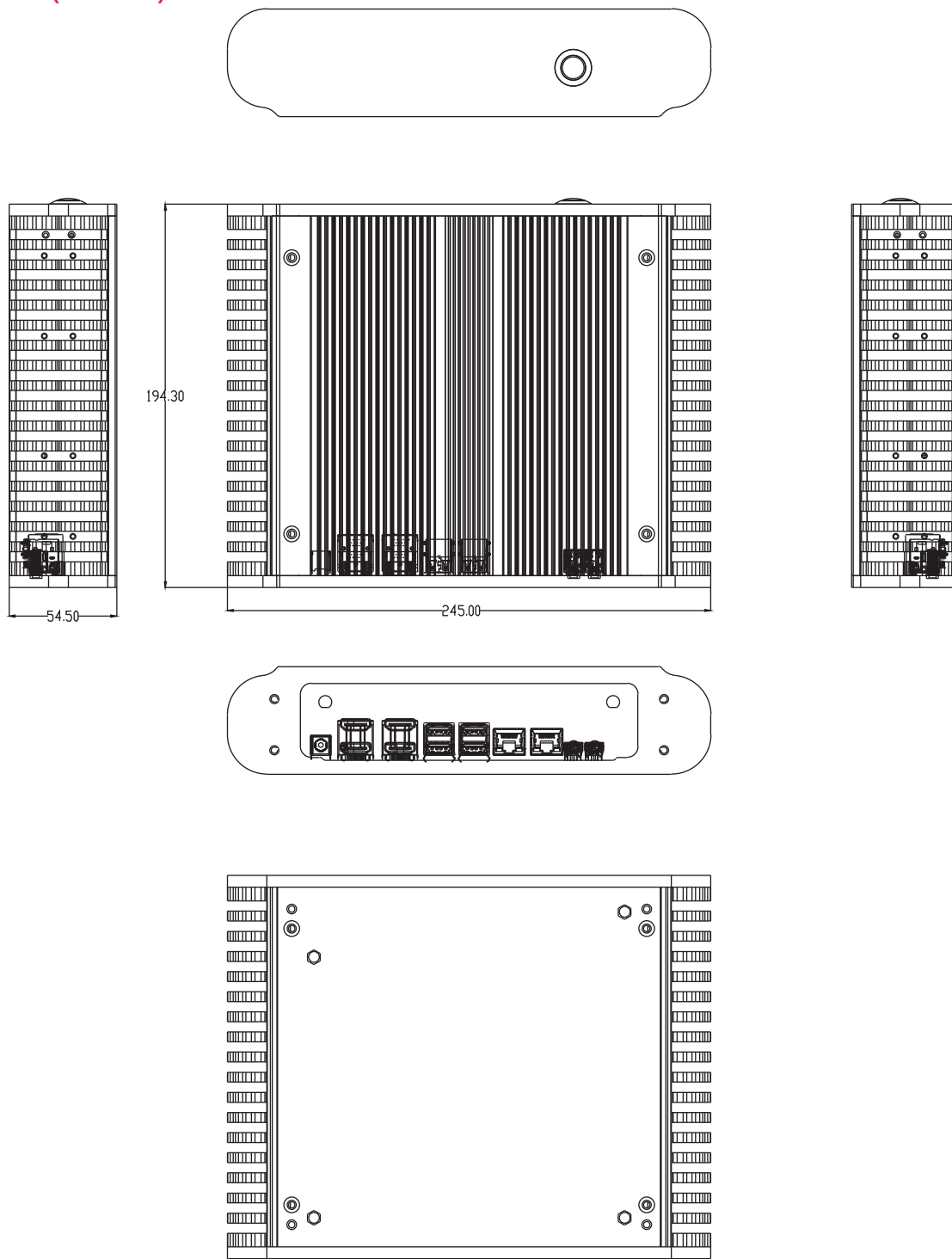


Technical Specifications

Processor	CPU	V1605B (Quad-Core)	2500U (Quad-Core)
	Max Boost clock	3.6 GHz	3.6 GHz
	Base Clock	2.0 GHz	2.0 GHz
	Cache	2MB L2	2MB L2
	BIOS	AMI SPI BIOS	
Memory	Type	Dual Channel SO-DIMM DDR4	
	Max. Capacity	32GB	
Display	GPU	AMD Radeon Vega 8 Graphics	
	Display via	4 x DP(LVDS/eDP Optional) Resolution up to 3840x2160 for single display	
Ethernet	Speed	10/100/1000 Mbps	
	Controller	RTL8111H	
	Interface	RJ 45	
Audio	Audio codec	Realtek HD (Line-out, Mic-in)	
	Interface	Line-out, Mic-in, Audio header, Amplifier header	
Hardware		CPU system temperature, onboard voltage, watchdog	
Wireless connectivity	M.2	1xM.2 for Wi-Fi	
Storage	M.2	1xM.2 for 4G/2280 SSD	
	SATA3.0	1	
Expansion	PCIe 1X	1	
	PCIe 4X	1	
I/O Interface	LAN	2	
	COM	6*header RS232 (COM2 can be change to RS485, optional)	
	USB3.2	2	
	USB2.0	8 (2*Port + 6*header)	
	Audio	1 x Line-out + 1 x Mic-in	
	GPIO	8 (One Group)	
	LPT	1	
	PS/2	1	
	TPM2.0	Onboard, Optional	
	Dimension	Size	245mm x 194.3mm x 54.5mm
Type		Embedded PC	
Power	Standard Port	12V DC-in	
Temperature	Operating Temp.	- 20°C to 60°C	
	Storage Temp.	- 40°C to 80°C	
Cooling Method		Passive	
Operating System		Windows 10 64bit, Linux 64bit	

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

Dimension(in mm)



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