

DT-8853H-E4

12th/13th Gen Intel Processor(FCLGA1700 Socket) with Z690 Chipset



Features

- CPU: 12th/13th Gen Intel CPU + Z690 Chipset
- Memory: Dual channel SO-DIMM DDR5 up to 64 GB
- Display via: 1x HDMI2.0+ 1x VGA + 1x DP
- I/O Interface: 8x USB3.2, 2 x USB2.0, 6x COM
- Ethernet: 1*Intel i219(1.0GbE)+2*Intel i226(2.5GbE)
- Storage: 3xSATA3.0 + 2xM.2 for HDD/SSD
- Expansion: M.2 for WiFi, PICE/PCI 4 Slots
- Power: 16-36V DC-in



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Introduction

The Maxtang DT8853 Serie industrial PC is powered by the Intel Alder Lake-S and Raptor Lake-S CPUs with the Z690 chipset. The DT-8853H-E4 industrial PC is purpose-built for various industrial applications and excels with dual-channel SO-DIMM DDR5 RAM (up to 64GB), triple displays (HDMI, DP, VGA), and up to 4 PCIe/PCI slots for enhanced productivity. It features 3x SATA3.0 plus 2x M.2 interfaces, 3x LAN(1*1.0Gbps+2*2.5Gbps), 6x COM, 8x USB 3.2, 2x USB 2.0, and 16-bit GPIO for a wide range of peripherals and external devices; which provides more flexibility and expandability.

Its robust build conquers harsh environments, handling contaminants and noise while optimizing Mean Time Between Failures (MTBF), ensuring an extended platform lifecycle. Whether you need a reliable computing solution for industrial automation, digital signage, edge computing, or other demanding applications, this system, with its powerful processors, extensive connectivity options, and robust construction, is designed to exceed your expectations. Experience the future of computing with this high-performance, feature-rich system.



H/W Monitor

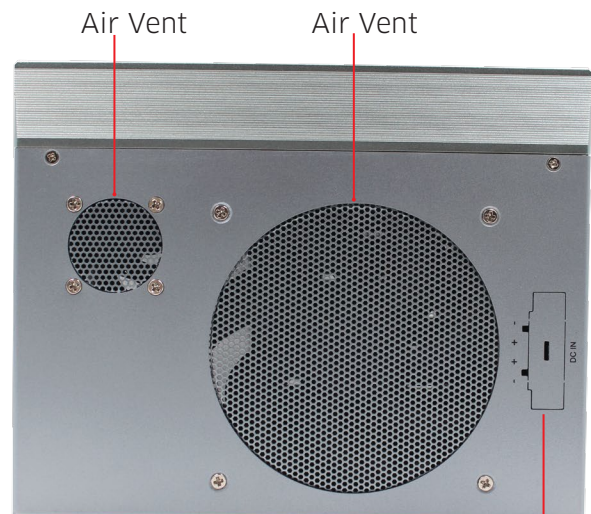
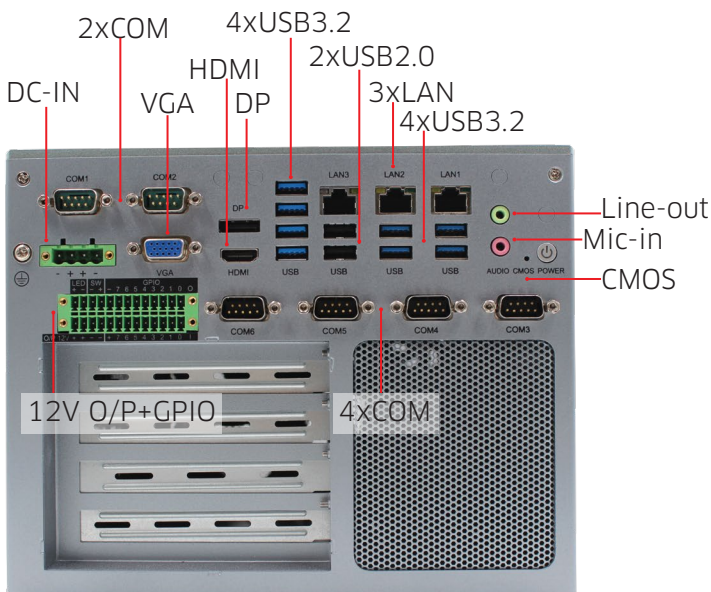


Watchdog



GPIO

I/O Interfaces







Optional DC-IN

Technical Specifications

Processor	CPU	12th/13th Gen Intel Alder Lake-S/Raptor Lake-S Processors ($\leq 45W$)
	Socket	FCLGA1700
	Chipset	Z690
	BIOS	AMI UEFI BIOS
Memory	Type	Dual Channel SO-DIMM DDR5-4800MHz
	Max. Capacity	64GB
Display	GPU	Integrated Intel® UHD Graphics
	Display via	1xHDMI + 1xVGA+ 1xDP
Ethernet	Controller	1x Intel i219, Data Rate Per Port:1.0 GbE
		2x Intel i226, Data Rate Per Port:2.5 GbE
Storage	SATA	3x SATA3.0
	M.2	1x M.2_Key M 2280 Slot, supports SATA/NVMe SSD PCIe4.0 4X Signal.
	M.2	1x M.2_Key B 2280/2242 Slot, supports SATA SSD or 4G/5G Module
Expansion	M.2	1x M.2_Key E 2230 Slot, supports WiFi and Bluetooth
	PCIe/PCI	4 Slots
	Default	1*PCIe16X(Pcie4.0)+3*PCIe4X(Pcie3.0)
	Optional	Please consult your regional sales for other available options.
I/O	USB3.2	8x USB3.2
	USB2.0	2x USB2.0
	COM	6x RS232 by default. COM1, COM2 can be set as RS422/RS485 in BIOS
	LAN	3x RJ45
	HDMI	1x HDMI2.0b
	VGA	1
	DP	1
	Audio	1x Mic-in
		1x Line-out
	GPIO	16x
Other	Power Control	Wire Switch, Power Switch
Dimension	Size	266 mm x 262.8mm x 182.3mm
Power	Standard Port	16V-36V DC-in
Temperature	Operating Temp.	-20°C to 60°C
	Storage Temp.	-40°C to 80°C
Operating System		Windows 10/11, Linux

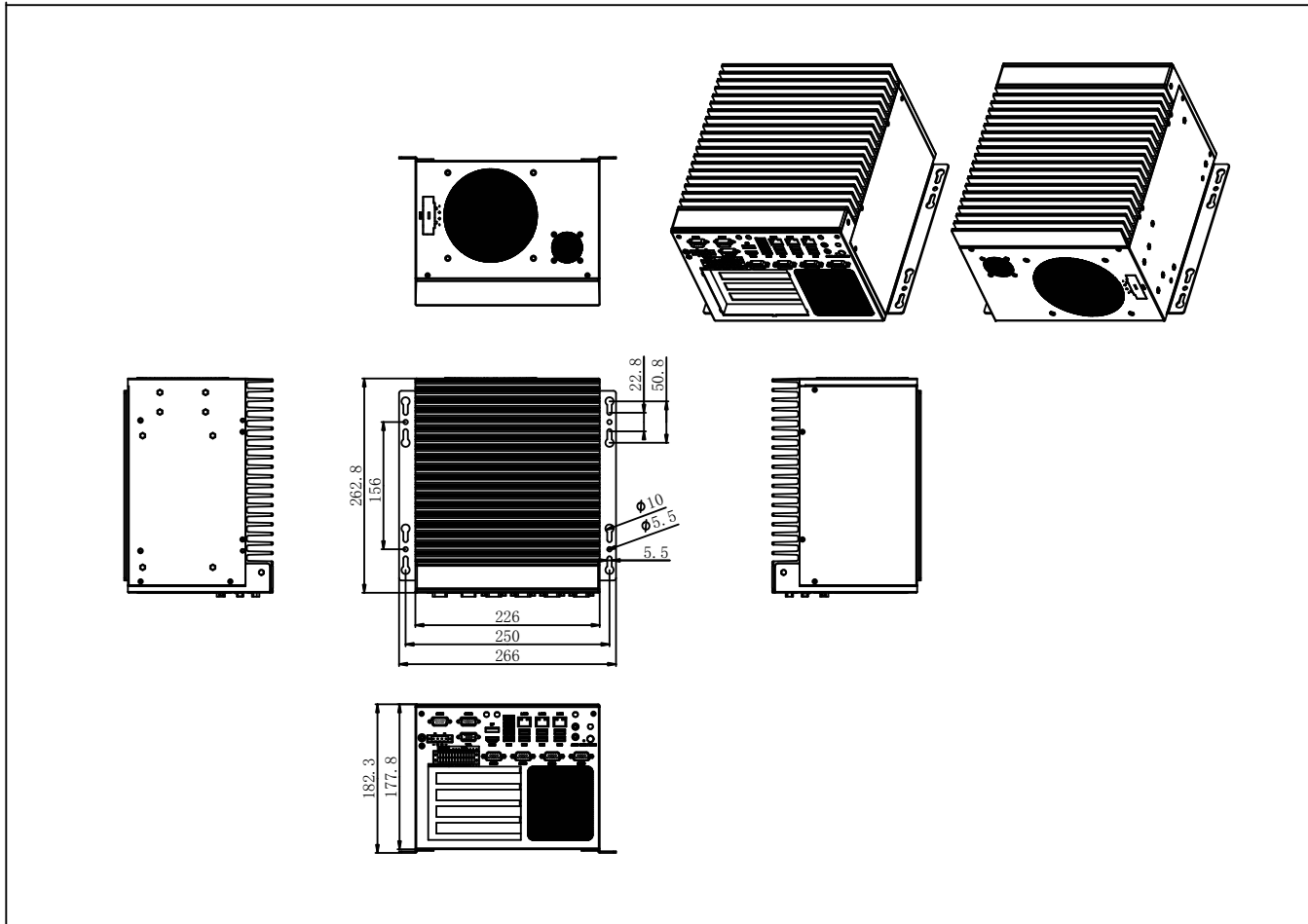
* All specifications and photos are subject to change without notice.

More Options

Model	DT-8853H-B1	DT-8853H-E1	DT-8853H-E2	DT-8853H-E4
Chipset	Z690	Z690	Z690	Z690
Picture				
Dimension (mm)	266x262x86	266x262x116	266x262x142	266x262x182
CPU	Socket LGA 1700 (12/13 Gen Core, Pentium, Celeron), max. 45W			
GPU	Intel Graphics for Intel CPU 12th/13th Generation			
Memory	2x SO-DIMM DDR5 4800MHz, max. 64GB			
LAN	1x i219, 2x i226 2.5G			
Display output	1x HDMI, 1x VGA, 1x DP			
Storage	2x SATA 2.5'	2x SATA 2.5'	2x SATA 2.5'	1x SATA 2.5'/3.5'
	1x 2280 SATA or NVMe SSD (PCIe x4)	1x 2280 SATA or NVMe SSD (PCIe x4)	1x 2280 SATA or NVMe SSD (PCIe x4)	1x 2280 SATA or NVMe SSD (PCIe x4)
Expansion	NA	1x PCIe x16	1x PCIe x16	1x PCIe x16
			1x PCIe x4 in x16 size	3x PCIe x4
	1x M.2 2230 WiFi	1x M.2 2230 WiFi	1x M.2 2230 WiFi	1x M.2 2230 WiFi
IO	1x M.2 2242/2280 SSD/4G/5G	1x M.2 2242/2280 SSD/4G/5G	1x M.2 2242/2280 SSD/4G/5G	1x M.2 2242/2280 SSD/4G/5G
	3x RJ45	3x RJ45	3x RJ45	3x RJ45
	1x HDMI, 1x VGA, 1x DP			
	8x USB3.2	8x USB3.2	8x USB3.2	8x USB3.2
	2x USB2.0	2x USB2.0	2x USB2.0	2x USB2.0
	4x RS232	4x RS232	4x RS232	4x RS232
2x RS232/485/422	2x RS232/485/422	2x RS232/485/422	2x RS232/485/422	
2x 8bit GPIO	2x 8bit GPIO	2x 8bit GPIO	2x 8bit GPIO	
Power	DC 16~36V			
Cooler	Fanless	Cooler	Cooler	Cooler

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Dimension(mm)



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