

WM140-RPS

Q670E
R680E
H610E

14th/13th/12th Gen Intel® Core™
Wallmount Desktop Box IPC



KEY FEATURES



Compact Size

Effortless 2U wall-mount deployment



One-Side Rich I/O

2 Intel 2.5GbE, 2 COM, 6 USB ports



Dual PCIe slot expansion

Dual-slot low-profile GPUs—AI accelerated



Wall-Mount support

Wall mount system for 14th/13th/12th
Generation Intel® Core™ Processors

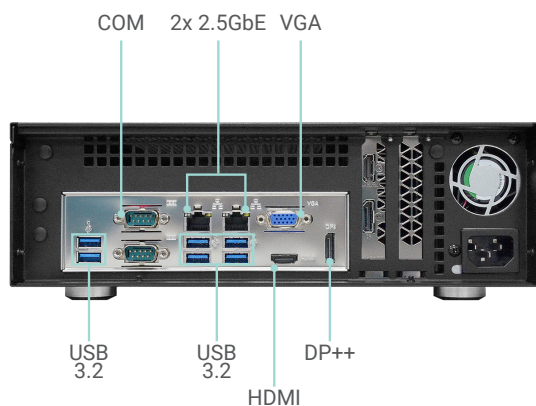


Multiple display interfaces

DP++/HDMI/VGA for different scenario



PANEL

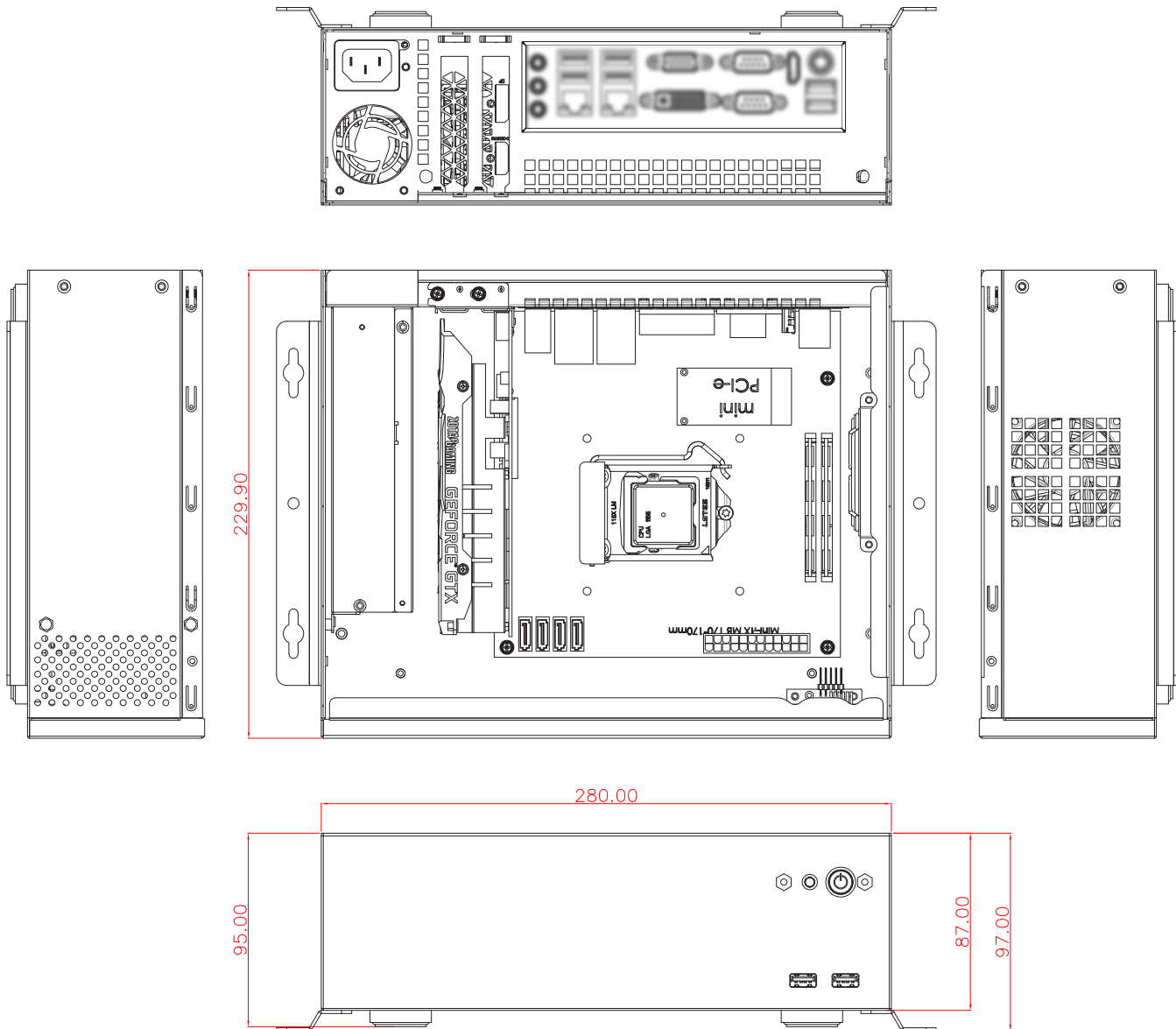


Front View



Rear View

DIMENSIONS



SPECIFICATION

SYSTEM	Processor	<p>14th Generation Intel® LGA 1700 Socket Processors, TDP support up to 65W Intel® Core™ i9-14900 (24 Cores, 36M Cache, up to 5.8 GHz); 65W Intel® Core™ i9-14900T (24 Cores, 36M Cache, up to 5.5 GHz); 35W Intel® Core™ i7-14700 (20 Cores, 33M Cache, up to 5.4 GHz); 65W Intel® Core™ i7-14700T (20 Cores, 33M Cache, up to 5.2 GHz); 35W Intel® Core™ i5-14500 (14 Cores, 24M Cache, up to 5.0 GHz); 65W Intel® Core™ i5-14500T (14 Cores, 24M Cache, up to 4.8 GHz); 35W Intel® Core™ i5-14400 (10 Cores, 20M Cache, up to 4.7 GHz); 65W Intel® Core™ i5-14400T (10 Cores, 20M Cache, up to 4.5 GHz); 35W Intel® Core™ i3-14100 (4 Cores, 12M Cache, up to 4.7 GHz); 60W Intel® Core™ i3-14100T (4 Cores, 12M Cache, up to 4.4 GHz); 35W Intel® 300 (2 Cores, 6M Cache, 3.9 GHz); 46W Intel® 300T (2 Cores, 4M Cache, 3.4 GHz); 35W</p> <p>13th Generation Intel® LGA 1700 Socket Processors, TDP support up to 65W Intel® Core™ i9-13900E (24 Cores, 36M Cache, up to 5.2 GHz); 65W Intel® Core™ i9-13900TE (24 Cores, 36M Cache, up to 5.0 GHz); 35W Intel® Core™ i9-13900 (24 Cores, 36M Cache, up to 5.6 GHz); 65W Intel® Core™ i7-13700E (16 Cores, 30M Cache, up to 5.1 GHz); 65W Intel® Core™ i7-13700TE (16 Cores, 30M Cache, up to 4.8 GHz); 35W Intel® Core™ i7-13700 (16 Cores, 30M Cache, up to 5.2 GHz); 65W Intel® Core™ i7-13700T (16 Cores, 30M Cache, up to 4.9 GHz); 35W Intel® Core™ i5-13500E (14 Cores, 24M Cache, up to 4.6 GHz); 65W Intel® Core™ i5-13500TE (14 Cores, 24M Cache, up to 4.5 GHz); 35W Intel® Core™ i5-13500 (14 Cores, 24M Cache, up to 4.8 GHz); 65W Intel® Core™ i5-13500T (14 Cores, 24M Cache, up to 4.6 GHz); 35W Intel® Core™ i5-13400E (10 Cores, 20M Cache, up to 4.6 GHz); 65W Intel® Core™ i5-13400 (10 Cores, 20M Cache, up to 4.6 GHz); 65W Intel® Core™ i3-13100E (4 Cores, 12M Cache, up to 4.4 GHz); 65W Intel® Core™ i3-13100TE (4 Cores, 12M Cache, up to 4.1 GHz); 35W Intel® Core™ i3-13100 (4 Cores, 12M Cache, up to 4.5 GHz); 65W Intel® Core™ i3-13100T (4 Cores, 12M Cache, up to 4.2 GHz); 35W Intel® G7400E (2 Cores, 6M Cache, 3.6 GHz); 46W Intel® G7400TE (2 Cores, 6M Cache, 3.0 GHz); 35W Intel® G6900E (2 Cores, 4M Cache, 3.0 GHz); 46W Intel® G6900TE (2 Cores, 4M Cache, 2.4 GHz); 35W</p> <p>12th Generation Intel® LGA 1700 Socket Processors, TDP support up to 65W Intel® Core™ i9-12900E (16 Cores, 30M Cache, up to 5.0 GHz); 65W Intel® Core™ i9-12900TE (16 Cores, 30M Cache, up to 4.8 GHz); 35W Intel® Core™ i9-12900 (16 Cores, 30M Cache, up to 5.0 GHz); 65W Intel® Core™ i7-12700E (12 Cores, 25M Cache, up to 4.8 GHz); 65W Intel® Core™ i7-12700TE (12 Cores, 25M Cache, up to 4.7 GHz); 35W Intel® Core™ i7-12700 (12 Cores, 25M Cache, up to 4.8 GHz); 65W Intel® Core™ i5-12500E (6 Cores, 18M Cache, up to 4.5 GHz); 65W Intel® Core™ i5-12500TE (6 Cores, 18M Cache, up to 4.3 GHz); 35W Intel® Core™ i5-12500 (6 Cores, 18M Cache, up to 4.6 GHz); 65W Intel® Core™ i5-12400 (6 Cores, 18M Cache, up to 4.4 GHz); 65W Intel® Core™ i3-12100E (4 Cores, 12M Cache, up to 4.2 GHz); 60W Intel® Core™ i3-12100TE (4 Cores, 12M Cache, up to 4.0 GHz); 35W Intel® Core™ i3-12100 (4 Cores, 12M Cache, up to 4.3 GHz); 60W Intel® G7400E (2 Cores, 6M Cache, 3.6 GHz); 46W Intel® G7400TE (2 Cores, 6M Cache, 3.0 GHz); 35W Intel® G6900E (2 Cores, 4M Cache, 3.0 GHz); 46W Intel® G6900TE (2 Cores, 4M Cache, 2.4 GHz); 35W</p>
	Chipset	Intel® R680E/Q670/H610E Chipset
	Memory	Dual DDR5 SODIMM 5600MHz up to 64GB (ECC support by R680E sku)
	BIOS	AMI SPI 256Mbit
	GRAPHICS	Controller
	Feature	<p>3D graphics HW acceleration: DX12, Open GL 4.6, Vulkan 1.2 HW Video Decode: 8K60 12b 4:2:0 HEVC/VP9/SCC; 8K30 10b 4:2:0 AV1; 5K60 10b 4:4:4 HEVC/VP9/SCC; 4K60 8b 4:2:0 AVC HW Video Encode: 8K30 or 5K60 8b/10b 4:2:0 HEVC/VP9/SCC; 4K60 10b 4:4:4 HEVC/VP9/SCC; 4K60 8b 4:2:0 AVC</p>
	Display	<p>1 x HDMI 1 x DP++ 1 x VGA DMI: resolution up to 3840x2160 @ 24Hz DP++: resolution up to 3840x2160 @ 60Hz VGA: resolution up to 2048x1536 @ 60Hz</p>
STORAGE	Internal	<p>1 x 2.5" SATA 3.0 SSD (Option) 1 x M.2 2280 M Key (PCIe x4/SATA)</p>
EXPANSION	Interface	<p>1 x PCIe x16 (Gen 5) (Max. 75W) 1 x M.2 2230 E Key 1 x M.2 3060 A Key 1 x M.2 2280 M Key</p>
AUDIO	Audio Codec	Realtek ALC888S

SPECIFICATION

ETHERNET	Controller	R680E	Q670E	H610E
		1 x Intel® I226-LM (Core i9/i7/i5 support iAMT) 1 x Intel® I226-V	1 x Intel® I226-LM (Core i9/i7/i5 support iAMT) 1 x Intel® I226-V	2 x Intel® I226-V
LED	Indicators	1 x Power LED		
I/O	Ethernet	2 x 2.5GbE (RJ-45)		
	Display	1 x DP++ 1 x HDMI 1 x VGA		
	USB	R680E	Q670E	H610E
		2 x USB 3.2 Gen2 4 x USB 3.2 Gen1	6 x USB 3.2 Gen1	4 x USB 3.2 Gen1 2 x USB 2.0
Buttons	1 x Power button			
WATCHDOG TIMER	Output & Interval	System Reset, Programmable via Software from 1 to 255 Seconds		
SECURITY	TPM	Nuvoton TPM 2.0		
POWER	Supply	FlexATX		
	Consumption	TBD		
COOLING	Fan	1 x 8cm System Fan, with replaceable air filter		
OS SUPPORT	Microsofts	Windows 10 IoT Enterprise 2019		
ENVIRONMENT	Operating Temperature	-5° to 45° C		
	Storage Temperature	-40 to 85°C		
	Relative Humidity	5 to 95% RH (non-condensing)		
MECHANICAL	Construction	Sheet Metal		
	Mounting	Wall mount		
	Dimensions (W x H x D)	280 x 87 x 229.9 mm		
	Weight	TBD		
	Color	Black		
STANDARDS AND CERTIFICATIONS	Shock	Operating: 3G		
		Non-operating: 5G		
	Vibration	Operating: 1G		
		Non-operating: 3G		
Package Drop	ISTA Project 1A			
Certification	TBD			

PACKING LIST

• 1 WM140-RPS System Unit(w/o CPU cooler)