

1ST-VHWL30

Fanless Industrial miniPC

with Intel® Core™ or Celeron® CPU (Whiskey Lake-U/Comet Lake-U)



- Developed on Intel® 8th/10th Gen. Core™ i3/i5 processor or Celeron® 4205U CPU
- Dual Channels DDR4 memory up to 64GB
- Triple display with HDMI, miniHDMI and DP
- Rich I/O ports: 2× USB3.0, 4× USB2.0, 2× LAN, 1× COM optional, 1× SIM slot
- Wide expansions: 1x M.2 for SSD, 1x M.2 for SSD or 4G, 1x M.2 WiFi
- Thin Fanless design and low power consumption



	Items	Descriptions
Dimensions (WxDxH)		191mmx151mmx34mm
Motherboard	CPU	Intel® Core™ i3-8145U (2.2GHz up to 3.9GHz, dual-core processor, TDP 15W), Intel® Celeron® 4205U (1.8GHz, dual-core processor, TDP 15W), Intel® Core™ i5-10210U (1.6GHz up to 4.2GHz, quad-core processor, TDP 15W), Intel® Core™ i3-10110U (2.1GHz up to 4.1GHz, dual-core processor, TDP 15W)
	System Memory	2x SO-DIMM slot supports DDR4 2400MHz (2133MHz for Celeron®) up to 64 GB RAM
	Audio	Realtek HD ALC662 chip (Mic-in, Line-out)
	GPU	Intel® UHD graphics 610/620 (based on CPU)
	BIOS	AMI 16MB UEFI BIOS
Storage	Interface	1x M.2 for 2280 NVMe SSD (2242 SATA optional) 1x M.2 for 2242 SSD or 4G module
Expansion		1x SIM card slot, 1x M.2 for WiFi
Ethernet	Interface	2x GbE LAN, 10Mbps/100Mbps/1000Mbps
	Ethernet Controller	1x Intel® i210 and 1x Intel® i219
	Wake on line	yes
Display		Multiple display: HDMI, miniHDMI (without audio) DP 1.4
System I/O	Front panel Interfaces	2x LAN 4x USB2.0 1x HDMI 1x DP 2x WiFi / 4G Antennae Jack
	Left Side I/O	2x USB3.0 1x miniHDMI 1x SIM card slot Mic-in and Line-out
	Right Side I/O	1x COM optional
Power		19V DC-IN
Enclosure Material		100% Aluminum Alloy
Operating temperature		-20° C ~60° C
Storage temperature		-40° C ~80° C
Operating System		Supports Windows 11/10 64 bit; Linux 64 bit

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Ordering Information

Part No.	Descriptions
1ST-VHWL30-1	Intel® Core™ i3-8145U (2.2GHz up to 3.9GHz, dual-core processor, TDP 15W)
1ST-VHWL30-2	Intel® Celeron® 4205U (1.8GHz, dual-core processor, TDP 15W)
1ST-VHWL30-3	Intel® Core™ i5-10210U (1.6GHz up to 4.2GHz, quad-core processor, TDP 15W)
1ST-VHWL30-4	Intel® Core™ i3-10110U (2.1GHz up to 4.1GHz, dual-core processor, TDP 15W)

Dimensions

