

IVS-104

Intel® Elkhart Lake / Alder Lake-U/H110
Integrated Computing Panel PC



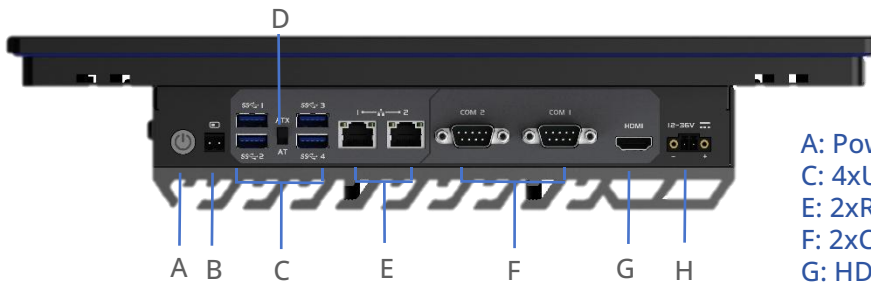
Features

- 10.4-inch LED-backlit display, resolution 1024x768
- Optional capacitive/resistive touchscreen, supports 10-point touch
- Optional Intel® Elkhart Lake / Alder Lake-U/H110 platform
- 2 x Gigabit Ethernet interfaces or 4 network ports
- Supports 2 x RS232/422/485 interfaces, surge protection included
- DC 12-36V wide voltage input, supports reverse polarity/short circuit/overvoltage/overcurrent protection



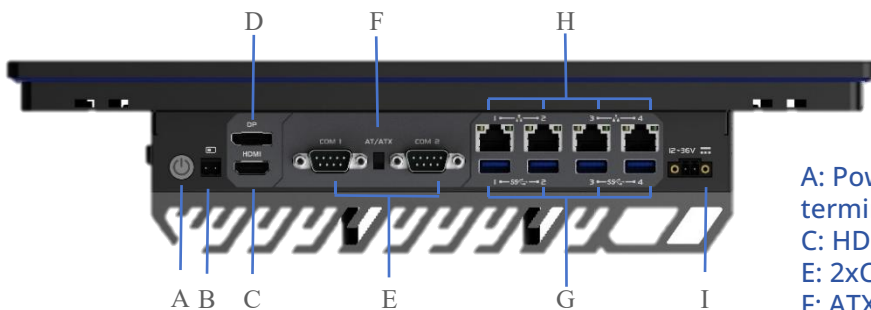
Product View

Configured with Module I



A: Power switch B: Remote switch terminal
C: 4xUSB3.0 D: ATX/AT Switch
E: 2xRJ45
F: 2xCOM, optional RS232/422/485
G: HDMI
H: DC IN

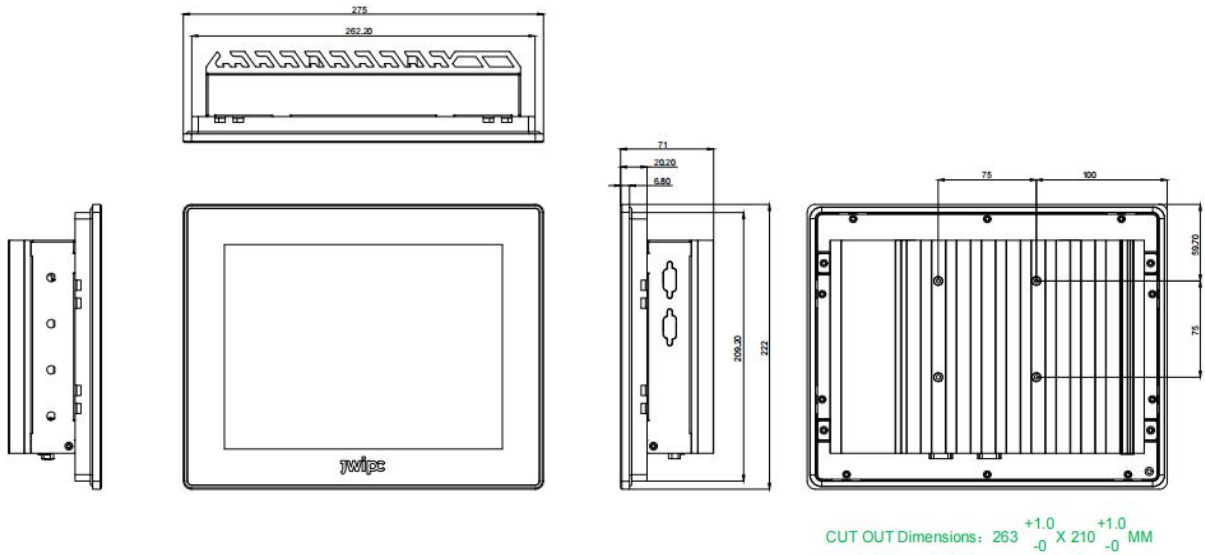
Configured with Modules II and III



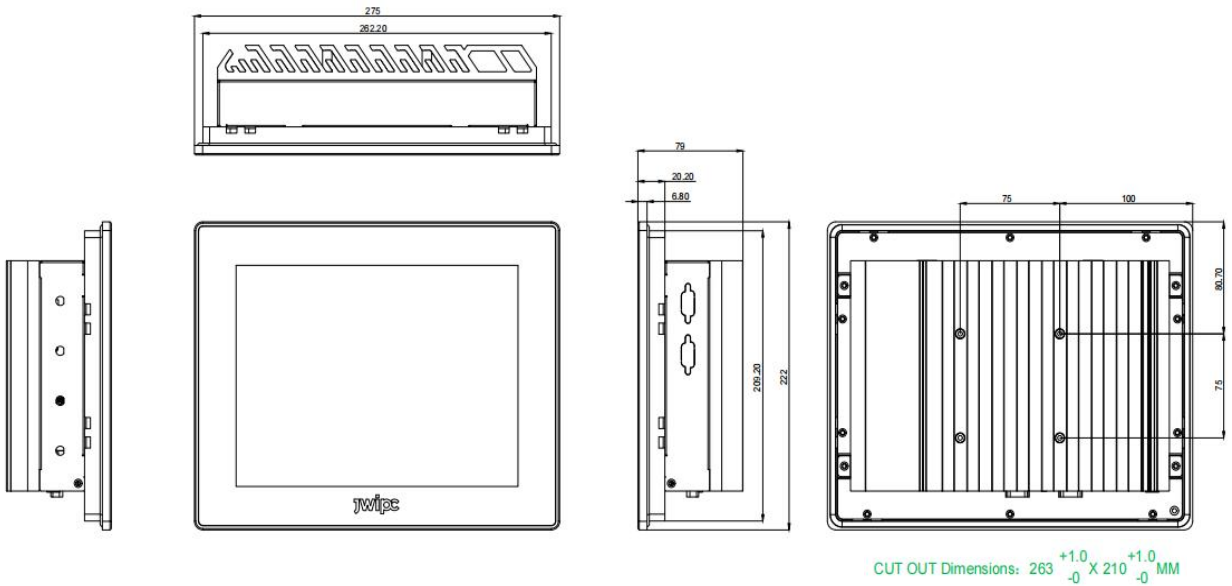
A: Power switch B: Remote switch terminal
C: HDMI D: DP
E: 2xCOM, optional RS232/422/485
F: ATX/AT Switch G: 4xUSB3.0
H: 4xRJ45 I: DC IN

■ Dimensions

Configured with Module I



Configured with Modules II and III



Configurations	Configurations	Module I	Module II	Module III	
Processor	CPU	Intel® Celeron® J6412	Intel® Core™ i3-1215U	Intel® Core™ i5-1235U	Intel® Core™ i7-1255U
	Core Count/Thread Count	4/4	2P+4E	2P+8E	2P+8E
	Base Frequency	2.00 GHz	1.2 GHz	1.3 GHz	1.7 GHz
	Turbo Frequency	2.60 GHz	4.4 GHz	4.4 GHz	4.8 GHz
	Smart Cache	1.5	10	12	12
	TDP	10W	15W	15W	15W
	Memory	1 x SO-DIMM DDR4-3200, supports up to 16GB	1 x SO-DIMM DDR5-4800, supports up to 32GB		1 x SO-DIMM DDR4-3200, supports up to 16GB
	Storage	1 x M.2 2242/2280 SATA protocol interface 1 x 7+15Pin SATA3.0 protocol interface	1 x M.2 2242/2280 NVMe protocol interface 1 x 7+15Pin SATA3.0 protocol interface		1 x M.2 2242/2280 SATA protocol 1 x 7+15Pin SATA3.0 protocol interface
	Network	1 x Intel I210AT, 1 x Intel I226-v Ethernet port	3 x Intel I226-V, 1 x Intel I210AT Ethernet port (4 Ethernet ports optional with POE module)		
	I/O Interfaces	2 x optional RS232/422/485, 2x RS232, 4xUSB3.0, 1x remote switch	2 x optional RS232/422/485, 4xUSB3.2, 2x RS232 (optional), 1x remote switch		
Display Interface	1 * HDMI1.4b	1 x HDMI1.4b, 1 x DP1.2			
Expansion	1 x M.2 Key E 2230 slot, expandable for WiFi 6 wireless module; 1 x M.2 Key B 3052/3042 slot, expandable for 4G/5G modules				
LCD Screen	Aspect Ratio	4: 3			
	Resolution	1024 * 768			
	Luminance	350 cd/m2			
	Contrast Ratio	900:1			
	Backlight Life	30000 h			
Angle of View	75 (left), 75 (right), 75 (top), 75 (bottom)				
Touch Screen	Type	10-point capacitive screen (optional 5-wire high-temperature resistive screen)			
	Luminousness	Above 81% (resistive screen > 80%)			
	Lifespan	50 million touches (resistive single point 10 million touches)			
Power Requirements	Input Voltage	DC 12-36V, supports reverse polarity/short circuit/overvoltage/overcurrent protection			
Physical Specifications	Dimensions	275X222x71 mm (thickness with modules III and IV is 79 mm)			
Operating System	Operating System	Windows 7 (Module III), Windows 10, Windows 11, Linux			
Environment	Operating Temperature (OP)	When using standard temperature storage memory, operating temperature is 0 ~ 50 °C (32~122 F) When using wide temperature storage memory, operating temperature is -20 ~ 60 °C (-4 ~ 140 F)			
	Operating Relative Humidity	95% @ 40 °C (non-condensing)			
	Storage Temperature (NOP)	-20 ~ 60 °C (-4 ~ 140 F)			
	Shock Resistance (OP)	15g 11ms half-sine wave			
	Vibration Resistance (OP)	5~500Hz 1Grms			
	EMC	CE Class A			
IP Rating	IP65 front panel				

Model	Processor	Touch screen type	Resolution	Memory	Storage	LAN	USB3	COM
IVS-104C3-EHL-8FB-01	Celeron® J6412	Capacitive Screen	1280 * 800	8 GB	256 GB	2	4	2
IVS-104C5-ADL3-8FB-01	Core i3 i3-1215U	Capacitive Screen	1280 * 800	8 GB	256 GB	4	4	4
IVS-104C5-ADL5-8FB-01	Core i5 i5-1235u	Capacitive Screen	1280 * 800	8 GB	256 GB	4	4	4
IVS-104C5-ADL7-8FB-01	Core i7 i7-1255u	Capacitive Screen	1280 * 800	8 GB	256 GB	4	4	4
IVS-104C7-H1105-8FB-01	Core i5 i5-8500	Capacitive Screen	1280 * 800	8 GB	256 GB	4	4	4

■ Packing List

Accessory Number	Description
300600016156	Power Adapter, DA-90J19, 90W, AC100~240V, 19V, 4.74A, Phoenix Terminal, CCC/CE/FCC, 0~40° C, PK, APD
301800000605	Flat Cable, Power, External Power Cable - L=1.5 m, National Standard Three-prong XBH-G31 with Hexagonal Tail XBH-2C5, RVV 300/500V, 3X0.75 mm ² , Black, PK, RoHS, XBH
302700002073	Certificate of Conformity, Certificate of Conformity (Green Triangle)

■ Optional Accessories

Accessories	Description
DDR4 Memory	SO-DIMM supports up to 16GB, suitable for Module I, III
DDR5 Memory	SO-DIMM supports up to 64GB, suitable for Module II
Storage	M.2 SSD supports 128GB, 256GB, 512GB, 1TB, 2TB
Storage	2.5-inch HDD expansion supports 128GB, 256GB, 512GB, 1TB, 2TB
4G/5GModule	4G/5GModule with Antenna
WiFi & Bluetooth Module	WiFi & Bluetooth Module with Antenna
Embedded Clips	Metal Structure, Fixed_button, Fixed_button_Assembly, SUS304, T=3.0, 24x21.7x23mm, Satin Finish 180 grit, Original Color