



# iTC-1150R-EXP

## Fanless Panel PC w/ Intel® Elkhart Lake Processor & SuperCAP Power Backup module



### Features

- Intel® Celeron® Processor J6413 (1.5M Cache, up to 3.00 GHz)
- 15" 1024 x 768 XGA LCD display
- Fanless design w/ Aluminum Front bezel
- Flush front panel w/ IP65 waterproof compliant
- Support 2.5GbE LAN and USB 3.2 Gen1 (5Gbps)
- Rich I/O: 6 x COM/ 2 x LAN/ 4 x USB3.2(5Gbps)/ 8-bit DI/O & dual video output: DisplayPort and DVI-D
- Easy-accessible expansion for storage and wireless module.
- 9~36V wide-range DC input with reverse protection
- Support PCIe x1 (half-length) and PCI 32-bit expansion
- Support SuperCAP Power Backup module

System	
CPU	Intel® Celeron® J6413 Quad-Core™ Processor 1.80GHz
Memory	1 x 260 pin DDR4 SO-DIMM socket, supporting 3200MHz SDRAM up to 32GB (4GB DDR4 SO-DIMM pre-installed)
LAN	1 x Intel® 225LM controller 1 x Intel® i210 / i211AT controller
Watchdog Timer	1~255 levels reset
TPM	Support TPM 2.0
Storage	
1st Device	1 x M.2 M-key 2242/ 2280 (SATAIII only)
2nd Device	1 x 2.5" SSD/ HDD tray* *Not available when SuperCAP module is installed
Audio	
Type	1 x Mic-in / 1 x Line out
Speaker	2 x 1.5W speakers (optional)
LCD Display	
Size/Type	15" TFT LCD Panel
Max. Resolution	1024 x 768, XGA
Max. Colors	16.2M
Luminance	350 cd/m <sup>2</sup>
Touch Screen	Flat 5-wire Analog Resistive
View Angle (U/D/R/L)	88°/88°/88°/88°
Button & Indicator	
Buttons	Power on & Reset
LED Indicator	Power-on status/ HDD status/ RTC battery status
Power System	
Power Input	DC 9~36V DC 12~28V (when SuperCAP module is installed)
Power Consumption	Typical 25W (w/o I/O cards)* *when SuperCAP module is installed, min. 60W adapter is required.
Power Backup time	70 seconds w/ SuperCAP module (800 farads)

Remote Control	1x3-pin terminal block for remote control and PWR LED output
----------------	--

Qualification	
Certification	CE, FCC Class A
Expansion	
Expansion Bus	1 x Mini PCIe (PCIe x1+ USB2.0, Full size) w/ 1 x SIM card slot(for Wireless connection) 1 x PCIe x1(for half-length) or 1 x PCI 32-bit slot(both Riser Cards are included in Standard Accessories) *when SuperCAP module is installed, PCIe1 and PCI slot are not available

External I/O	
Serial Ports	2 x DB-9 connectors for RS232/422/485 4 x DB-9 connectors for RS232
USB Ports	4 x Type-A USB 3.2 Gen1 (5Gbps)
LAN	1 x RJ-45 ports for GbE LAN 1 x RJ-45 ports for 2.5 GbE LAN
Video Ports	1 x DVI-D, supporting Full HD resolution 1 x DisplayPort 1.4, supporting 4K2K resolution
Digital I/O	8 bit Digital I/O

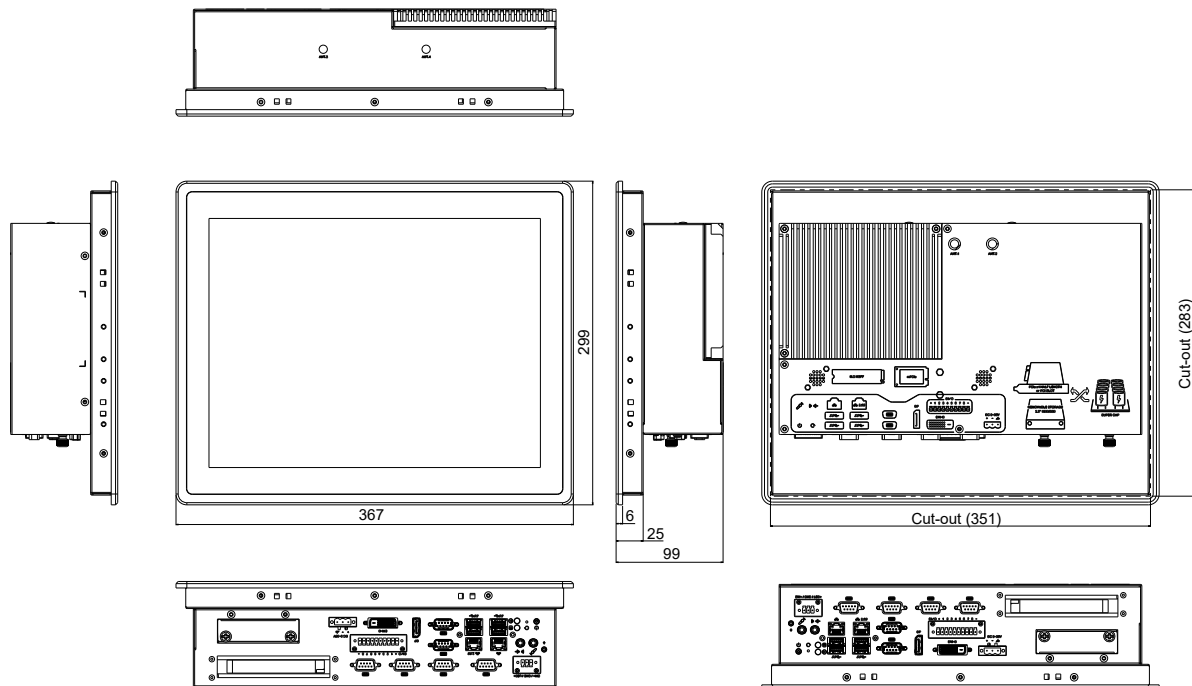
Mechanical	
Mounting Type	Panel mount / VESA-75/100 mount (optional)
Chassis	Aluminum front bezel and steel-metal chassis
Dimension (W x H x D)	367 x 299 x 99 mm
Weight (Net)	5.2 kg (w/o I/O cards and SuperCAP module)

Environmental	
Operating Temp.	-10 ~ 55°C
Storage Temp.	-20 ~ 70°C
Operating Humidity	10 ~ 95% RH @ 55°C (non-condensing)
Vibration	5 ~ 500Hz, 1Grms X,Y,Z axis (with SSD)
Shock	Operating 10G, 11ms X,Y,Z axis (with SSD)

OS Support	
Windows®10 (64bit), Windows®11 (64bit)	

All specifications are subject to change without notice.

## Dimensions



## Optional Accessories

PAC-60W6A-FSP-ES 12V/5A 60W AC/DC power adapter kit



VMB-1150-EXP

iTC-1150R-EXP VESA-mount bracket kit, w/ 75 x 75 mm & 100 x 100 mm VESA supports



64/128/256GB SSD

2.5" SSD MLC 64/128/256GB



64GB M.2 SSD

M.2 M-key 2242/2280, 64GB, SATA3.0



WiFi-AT4550

Atheros, QCNFA324 Wi-Fi module w/ 2\*30cm internal wiring



ANT-D11

1 x Wi-Fi Dual-band 2.4G/5G antenna



ADK-11X

iTC-11xx series audio kit



SCK-722C

Assembly kit for SiP-41B/42B

(Note: SCK-722C can only be installed with VMB-1150-EXP Mounting Bracket)



SiPB-1690B-HMI

SiPB-1690B-HMI (Built-in SuperCAP Module)

(Note: Visit the ARBOR website's Download Center to access the driver and SiP Management Utility files.)

