

# FPC-8210

Robust Box PC with Intel® 14<sup>th</sup>/13<sup>th</sup>/12<sup>th</sup> Generation Core™ i9/i7/i5/i3 Processor



## Features

- Fanless Design
- Wide Range DC Power Input (9 ~36V)
- Various Video Interfaces (VGA + DVI-D+DP)
- TPM2.0 support
- Optional Wi-Fi6 or LTE/5G Wireless Connectivity
- Rugged Design for Shock/Vibration Protection
- Memory support up to 64GB

<b>System</b>	
CPU	Intel® 14 <sup>th</sup> /13 <sup>th</sup> /12 <sup>th</sup> generation Core™ i9/i7/i5/i3 processor in LGA1700 socket
Memory	2 x 260-pin DDR4 SO-DIMM sockets, supporting 3200 MHz SDRAM up to 64GB
Chipset	Intel® H610E
Graphics	Integrated Intel® HD Graphics
ATA	2 x Serial ATA ports with 600MB/s HDD transfer rate
LAN Chipset	3 x Intel® WGI226V 2.5GbE controllers
Watchdog Timer	1~255 levels reset
<b>I/O</b>	
Serial Port	4 x RS-232 ports DB-9 connectors. (COM1 and COM2 are RS-232/422/485 configurable)
Selectable Port	1 x DB25 connector for DIO (8 in/8 out) port or LPT port (either one, default is DIO)
USB Port	2 x USB 3.2 Gen2 ports (10Gbps)
	4 x USB 3.2 Gen1 ports (5Gbps) Support internal USB dongle (Optional)
LAN	3 x RJ-45 ports for 2.5GbE
	1 x DB-15 female connector for Analog RGB
Video Port	1 x DP
	1 x DVI-D female connector for digital video output * Support 3 independent display
Audio	Mic-in/Line-out
Expansion Bus	1 x Mini-card socket interconnected with SIM card socket (Full size)
	1 x M.2 E Key (2230) for WiFi (CNVi Only)
	1 x M.2 B key ( 2242/3052/2280 ) w/ (PCIex2+USB3.0+SATA ) interconnected with SIM for 5G / LTE expansion or for storage
<b>Environmental</b>	
Operating Temp.	-20 ~ 70°C (-4 ~ 158°F), ambient w/ air flow (w/ 35W TDP CPU, fanless) -20 ~ 55°C (-4 ~ 131°F), ambient w/ air flow (w/ 65W TDP CPU, fanless)

Storage Temp.	-40 ~ 85°C (-40 ~ 185°F)
Operating Humidity	10 ~ 95% @ 55°C (non-condensing)
Vibration	3 Grms/5~500Hz/random operation w/ SSD
Shock	Operating 40G (11ms), Non-operating 60G with SSD

## Qualification

Certification	CE, FCC Class A
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## Power Requirement

Power Input	DC 9~36V input ( w/ 4-pin terminal block, combining remote power on/off switch)
Power Consumption	MAX 65W (w/35W TDP CPU, w/o I/O card) MAX 95W (w/65W TDP CPU, w/o I/O card)

## Storage

Type	2 x 2.5" drive bays (Optional support RAID0,1 , BTO) 1 x CFast socket, outside accessible
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## Mechanical

Construction	Aluminum alloy
Mounting	Wall-mount
Weight	4.2 kg (9.26 lb)
Dimensions (W x D x H)	195 x 268 x 90 mm

## OS Support

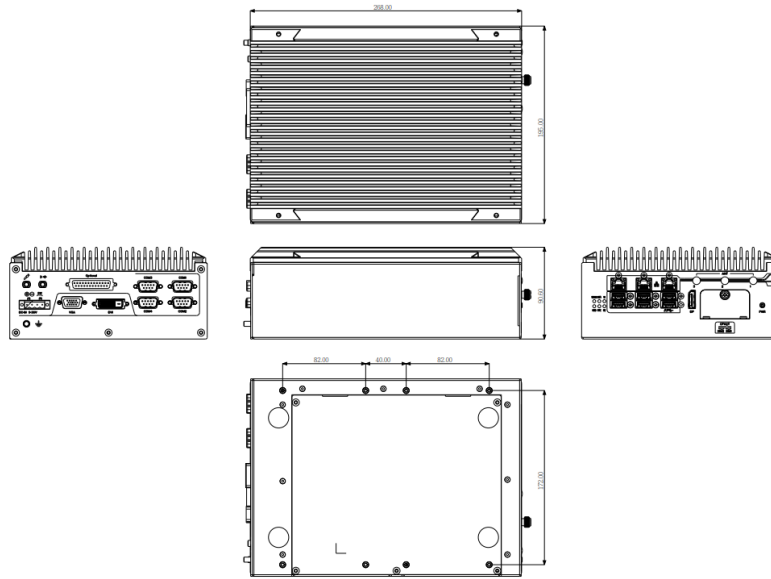
Windows 10 IOT / Windows 11 IOT Linux (Ubuntu 22.04)
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## Ordering Information




FPC-8210	Fanless system, w/o expansion
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# Dimensions



## Optional Accessories

PAC-120W6B-FSP-ES	120W AC/DC 19V adapter kit w/ 2-pin/3-pin/4-pin block	
PAC-180W6B-FSP-ES	180W AC/DC 19V adapter kit w/ 2-pin/3-pin/4-pin block	
WMK-7000	Wall-mount kit for FPC-7XXX Series	

## Optional Configuration (CTOS\* Kit)

240GB SSD	Intel® 2.5" 240GB SATAIII SSD kit	
MK-4C-4G/8G/16G/32G	DDR4-3200 8GB/16GB/32GB SDRAM DIMM kit	
WIFI-IN2550	Intel AX200NGW M.2 Wi-Fi 6 module w/ 2 x 30cm internal wires	
ANT-H11	1 X 2dBi HSUPA antenna	
ANT-D11	1 x Wi-Fi dual-band 2.4G/5G antenna	
Core™ i9-14900	Intel® 14 <sup>th</sup> Gen. Core™ i9-14900 processor, 36M, 2G	
Core™ i9-14900T	Intel® 14 <sup>th</sup> Gen. Core™ i9-14900T processor, 36M, 1.1G	
Core™ i7-14700	Intel® 14 <sup>th</sup> Gen. Core™ i7-14700 processor, 33M, 2.1G	
Core™ i7-14700T	Intel® 14 <sup>th</sup> Gen. Core™ i7-14700T processor, 33M, 1.3G	
Core™ i5-14400	Intel® 14 <sup>th</sup> Gen. Core™ i5-14400 processor, 20M, 2.5G	
Core™ i5-14500T	Intel® 14 <sup>th</sup> Gen. Core™ i5-14500T processor, 24M, 1.7G	
Core™ i3-14100	Intel® 14 <sup>th</sup> Gen. Core™ i3-14100 processor, 12M, 3.5G	
Core™ i3-14100T	Intel® 14 <sup>th</sup> Gen. Core™ i3-14100T processor, 12M, 2.7G	

\*CTOS means Configure-to-Order Service.