

FPC-5210-2M4

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Intel® 14th/13th/12th Gen. Core™ Embedded GPU Computer supporting Nvidia® RTX-A4500 w/ 2x 10G POEs



Features

- SMART FAN support
- 14th/13th/12th Gen. Core™ i9/i7/i5/i3 Processor (Raptor Lake-Refresh/ Raptor Lake-S/Alder Lake-S)
- Up to 120W GPU MXM module expansion
- 802.3af (15.4W) / 802.3at(25.5W) Gigabit PoE ports
- Wide range DC power input (9~36V)
- DP x2 + HDMI x 1 and DVI x 1 (support 4 independent displays)
- Power on/off delay control / configurable ignition power control
- Supports TPM 2.0 and Time-Sensitive Networking (TSN)
- Two-mPCIe for optional WiFi/3G/4G/GPS or I/O expansion supported
- 1 x M.2 B-Key for storage or 5G / LTE + 1 x M.2 E-Key for WiFi / BT

System

CPU	Intel® 14 th /13 th /12 th generation Core™ i9/i7/i5/i3 processor in LGA1700 socket (Max 65W CPU)
Memory	2 x 262-pin DDR5 SO-DIMM sockets, supporting 4800 MHz SDRAM up to 64GB (ECC/ Non-ECC)
Chipset	Intel® R680E
Graphics	Integrated Intel® HD Graphics 770
ATA	2 x Serial ATA ports with 600MB/s HDD transfer rate
LAN Chipset	1 x Intel® I219LM GbE controller w/ iAMT 16.0 3 x Intel® I226 2.5GbE controllers 2 x Intel® I226 2.5GbE controllers for PoE 2 x Marvell® 10GbE controllers for PoE
Watchdog Timer	1~255 levels reset
TPM	Onboard TPM 2.0

I/O

Serial Port	2 x RS-232/422/485 configurable ports via DB-9 conn. (Default RS232, Switch via BIOS) 2 x RS-232 ports via DB-9 conn.
USB Port	8 x USB 3.2 Gen2 /2.0 ports
LAN	4 x RJ-45 conn. for GbE 4 x M12 X-coded conn. by 2 x Intel® I226(2.5GbE) + 2 x Marvell® 10GbE, max 60W supports 802.3at POE+ (For -2M4) 4 x RJ-45 conn. by 2 x Intel® I226 + 2 x Marvell® 10GbE, max 60W supports 802.3at POE+ (-2P4) 2 x DP 1.4a from MXM module or Intel Graphics (Default Intel Graphics switch via BIOS)
Display	1 x HDMI 2.0b female conn. 1 x DVI-I female conn. for digital/analog video output * Support 4 independent displays
DIO Port	1 x DB15 conn. for 8 x digital input (Dry/ Wet contact) with 2KV isolation 1 x DB15 conn. for 8 x digital output with 2KV isolation
CAN Bus	2x DB9 conn. for isolated CANbus 2.0B(CN1/CN2)
Audio	Mic-in/Line-out

Expansion Bus	1x MXM3.1 TYPE A/B GPU Slot (PCIe Gen5 x16) MXM A4500 Support 2 x mini-PCI Express Slots interconnected with SIM card sockets for optional WiFi/BT/3G/LTE/ GPS (PCIex1+USB2.0, Full Size) 3 x SIM socket (2 for mPCIe / 1 for M.2 B key) 1 x M.2 B key (2242/3052/2280) w/ (PCIex2+USB3.0+SATA) interconnected with SIM for 5G / LTE or for storage (either one) 1 x M.2 E key (2230) with (PCIex1+USB2.0+CNV1) for Wireless
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All specifications are subject to change without notice.

Environmental

Operating Temp.	-20 ~ 55°C (-4 ~ 131°F), ambient w/ air flow (w/ 65W TDP CPU, 115W GPU)
Storage Temp.	-40 ~ 85°C (-40 ~ 185°F)
Operating Humidity	10 ~ 95% @ 55°C (non-condensing)
Vibration	5~500Hz 2G rms X,Y,Z axis w/SSD, according to IEC 60068-2-64
Shock	30 Grms, Half-sine 11 m sec. duration w/ SSD, according to IEC60068-2-27

Qualification

Certification	CE, FCC Class A
Power Requirement	
Power Input	DC 9~36V input (w/ 4-pin DC input terminal block) (V+ ,V+, V-, V-)
Ignition Switch	2-pin terminal block : IGN, GND
Power Consumption	Max. 280W

Storage

Type	2 x 2.5" outside accessible drive bays 1 x M.2 B key (2242/2280) w/ (PCIex2+USB+ SATA) for storage or LTE expansion (either one) 1 x M.2 2280 M key supports 2242, 2280 devices (PCIe x4 & SATA signal, support boot up function)
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Mechanical

Construction	Metal
Mounting	Wall-mount
Weight	4.68 Kg (10.32lb)
Dimensions (W x D x H)	285 x 230 x 110mm (11.2" x 9.05" x 4.33")

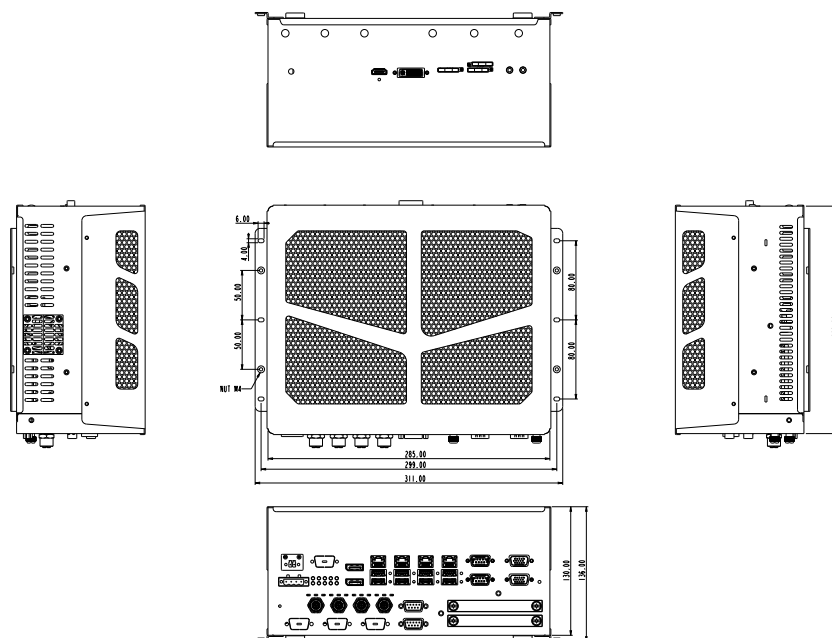
OS Support

Windows 10 IOT Enterprise 64-bit
Linux (Ubuntu 20.04)

Ordering Information

FPC-5210-2M4	Embedded GPU Computer, Bare BOM, w/2x 10GbE POEs, M12 type
FPC-5210-2P4	Embedded GPU Computer, Bare BOM, w/2x 10GbE POEs, RJ45 type (BTO)

Dimensions



Standard Accessories

CPF-92Q0-C1	CPU Cooling for LGA1700 CPU
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Optional Accessories

WMK-5210	Wall-mount kit for FPC-521x Series
PAC-330W6B	330W AC/DC adapter kit w/ 4-pin terminal block



Optional Configuration (CTOS* Kit)

MXM-KIT-A4500-8GB	MXM 3.1 Type B NVIDIA® Quadro® Embedded A4500-8GB GDDR6 MXM Kit with Heatsink
MXM-KIT-A4500-16GB	MXM 3.1 Type B NVIDIA® Quadro® Embedded A4500-16GB GDDR6 MXM Kit with Heatsink
MXM-KIT-A2000-8GB	MXM 3.1 Type A NVIDIA® Quadro Embedded A2000-8GB MXM Kit with Heatsink
MM-5C-8G/16G/32G	DDR5-4800 8GB/16GB/32G SDRAM DIMM module
WIFI-IN2550	Intel AX200NGW M.2 Wi-Fi 6 module w/2x30cm internal wires
ANT-H11	1 x 2dBi HSUPA antenna
ANT-D11	1 x WiFi dual-band 2.4G/5G antenna
Core™ i9-14900T	Intel® 14 th Gen. Core™ i9-14900T processor, L3/36M, 1.1G
Core™ i7-14700T	Intel® 14 th Gen. Core™ i7-14700T processor, L3/33M, 1.3G
Core™ i5-14500T	Intel® 14 th Gen. Core™ i5-14500T processor, L3/24M, 1.7G
Core™ i3-14100T	Intel® 14 th Gen. Core™ i3-13100T processor, L3/12M, 2.7G
Core™ i9-14900	Intel® 14 th Gen. Core™ i9-14900 processor, L3/36M, 2.0G
Core™ i7-14700	Intel® 14 th Gen. Core™ i7-14700 processor, L3/33M, 2.1G
Core™ i5-14500	Intel® 14 th Gen. Core™ i5-14500 processor, L3/24M, 2.5G
Core™ i3-14100	Intel® 14 th Gen. Core™ i3-14100 processor, L3/12M, 3.5G



*CTOS means Configure-to-Order Service.