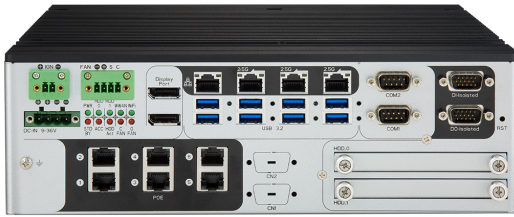




FPC-5211-P6

Intel® 14th / 13th / 12th Gen Core™ Fanless Edge AI Computer Supporting NVIDIA® RTX A2000 w/ 6x POEs



Features

- Fanless design (Embedded heat pipes cooling solution)
- 14th/13th/12th Gen. Core™ i9/i7/i5/i3 Processor (Raptor Lake-Refresh/ Raptor Lake-S/Alder Lake-S)
- Up to 60W GPU MXM module expansion
- 6x 802.3af (15.4W) Gigabit PoE ports
- 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
- Front-accessible I/O support
- 1 x M.2 B-Key for storage or 5G / LTE +1 x M.2 E-Key for WiFi / BT
- 1 x M.2 M-Key for NVMe SSD

| System | |
|----------------|--|
| CPU | Intel® 14 th / 13 th / 12 th Gen Core™ i9/i7/i5/i3 processor in LGA1700 socket (Max 35W 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® WGI219LM GbE controller w/ iAMT 16.0 3 x Intel® I226 2.5GbE controllers 6 x Intel® I210 GbE 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 via DB-9 connectors (Default RS-232, Switch via BIOS) |
| USB Port | 8 x USB 3.2(10Gbps)/ 2.0 ports |
| LAN | 4 x RJ-45 connectors for GbE 6 x RJ-45 connectors by Intel® I210(1GbE) max 60W supports 802.3af PoE |
| Display | 2 x DP 1.4a from MXM module or Intel Graphics (Default Intel graphics switch via BIOS) 1 x HDMI 2.0b female connector for Digital Video output 1 x DVI-I female connector for Digital/Analog video output * Support 4 independent displays |
| DIO Port | 1 x DB15 connector for 8 x digital input (Dry/Wet contact) with 2KV isolation 1 x DB15 connector for 8 x digital output with 2KV isolation |
| Audio | Mic-in/Line-out |
| Expansion Bus | 1 x MXM3.1 TYPE A/B GPU Slot (PCIe Gen5 x16) MXM A2000 support 2 x mPCIe Slots interconnected with SIM card sockets for optional WiFi/BT/3G/LTE/ GPS (PCIex1+USB2.0, Full Size) 1 x M.2 B key (2242/3052/2280) w/ (PCIex2+USB3.0+SATA) interconnected with SIM for 5G / LTE expansion or for storage (either one) 1 x M.2 E key (2230) with PCIe1+USB2.0+CNV1) for Wireless |

| Environmental | |
|--------------------|---|
| Operating Temp. | -20 ~ 50°C (-4 ~ 122°F), ambient w/ air flow -20 ~ 65°C (-4 ~ 149°F), ambient w/ air flow (w / External SMART FAN kit) *A2000 GPU 100% loading without throttling |
| Storage Temp. | -40 ~ 85°C (-40 ~ 185°F) |
| Operating Humidity | 10 ~ 95% @ 65°C (non-condensing) |
| Vibration | 5~500Hz 3G rms X,Y,Z axis w/SSD, according to IEC 60068-2-64 |
| Shock | 50 Grms, Half-sine 11 m sec. duration w/ SSD, according IEC60068-2-27 |

| Qualification | |
|---------------|-------------------------|
| Certification | CE, FCC Class A, E mark |

| 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. 180W |

| 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) |

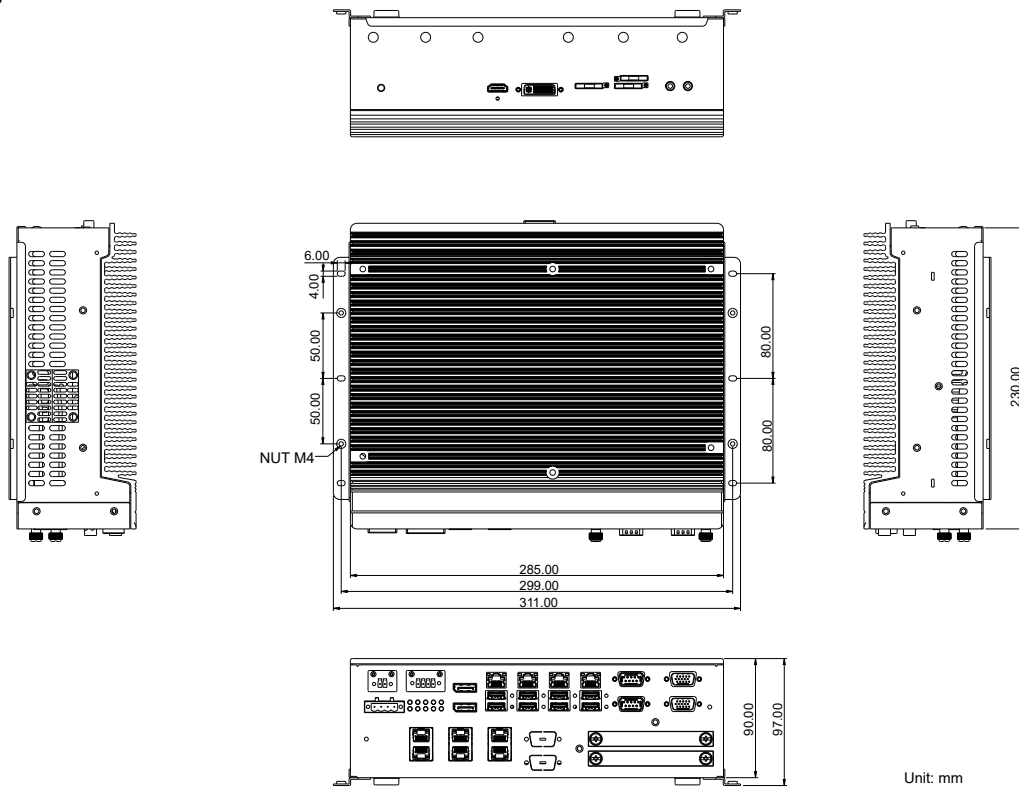
| Mechanical | |
|------------------------|---|
| Construction | Aluminum alloy |
| Mounting | Wall-mount |
| Weight | 5.83 Kg (12.85lb) |
| Dimensions (W x D x H) | 285x230x 90mm (9.84" x11.50" x 3.54"), Fanless 285x230x110mm (9.84" x11.50" x 4.33"), w/ FAN |

| OS Support | |
|---------------------------|--------|
| Windows 10 IoT Enterprise | 64-bit |
| Linux (Ubuntu 20.04) | |

| Ordering Information | |
|----------------------|---|
| FPC-5211-P6 | Edge AI GPU Computer Bare Bone, w/6x POEs |





Dimensions




Unit: mm

Optional Accessories

| | | |
|---------------|--|---|
| WMK-5210 | Wall-mount kit for FPC-521x Series |  |
| PAC-280W6C-MW | 280W AC/DC adapter kit w/ 2-pin/3-pin/4-pin terminal block |  |

Optional Configuration (CTOS* Kit)

| | | |
|------------------|--|---|
| MM-5C-8G/16G/32G | DDR5-4800 8GB/16GB/32G SDRAM DIMM module |  |
| MXM-A2000-8G | MXM 3.1 Type A NVIDIA® Quadro® Embedded A2000_8GB GDDR6 60W TGP) | |
| 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 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™ i3-14100T processor, L3/12M, 2.7G | |
| Core™ i9-13900TE | Intel® 13 th Gen. Core™ i9-13900TE processor, L3/36M, 1.0G |  |
| Core™ i7-13700TE | Intel® 13 th Gen. Core™ i7-13700TE processor, L3/30M, 1.1G | |
| Core™ i5-13500TE | Intel® 13 th Gen. Core™ i5-13500TE processor, L3/24M, 1.3G | |
| Core™ i3-13100TE | Intel® 13 th Gen. Core™ i3-13100TE processor, L3/12M, 2.4G | |
| EXFAN-8015 | External SAMRT Fan kit (80 x 80 x 15mm, 4 pin Terminal Block Plug, Mounting Bracket, support Smart Fan Function) | |

*CTOS means Configure-to-Order Service.