

FPC-8211/12/13

Robust Box PC with Intel® 13th 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

Enterprise Computing

| System | |
|-----------------|--|
| CPU | Intel® 13 th 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 |
| I/O | |
| 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 1 x DP |
| Video Port | 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/ (PCIe2+USB3.0+SATA) interconnected with SIM for 5G / LTE expansion or for storage |
| | 1 x PCIe x16 slot +1 x PCI slot (FPC-8211) |
| | 1 x PCIe x16 slot +1 x PCIe x 8 slot (via x 1 lanes) (FPC-8212) 2 x PCI (FPC-8213) |

| Environmental | |
|--------------------|--|
| 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 |

| 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) |

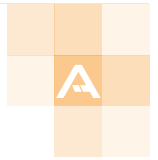
| Storage | |
|---------|--|
| Type | 2 x 2.5" drive bays (Optional support RAID0,1 , BTO) 1 x CFast socket, outside accessible |

| Mechanical | |
|------------------------|--------------------|
| Construction | Aluminum alloy |
| Mounting | Wall-mount |
| Weight | 5.8 kg (12.78 lb) |
| Dimensions (W x D x H) | 268 x 195 x 125 mm |

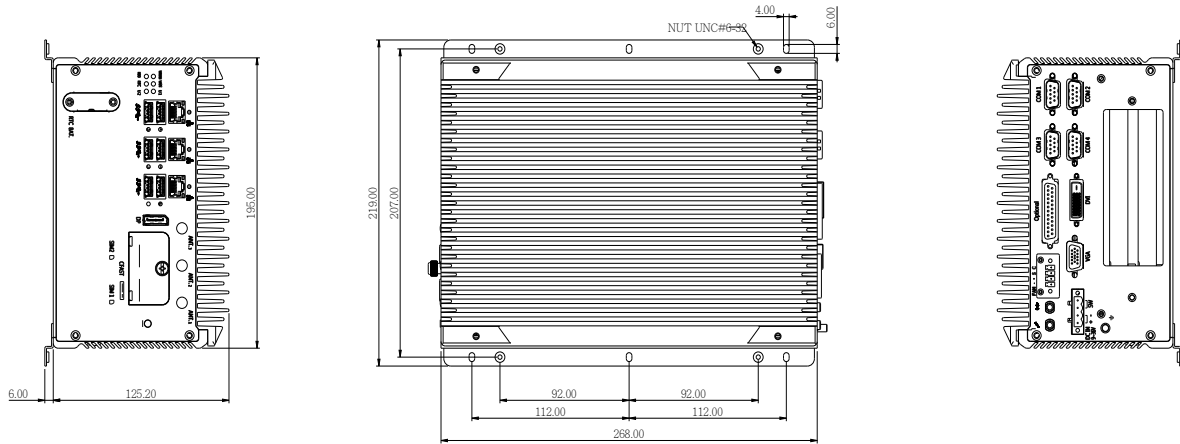
| OS Support | |
|----------------------|--|
| Windows 10 IOT | |
| Linux (Ubuntu 22.04) | |

| Ordering Information | |
|----------------------|---|
| FPC-8211 | Fanless system w/ 1x PCI + 1 x PCIe x 16 |
| FPC-8212 | Fanless system w/ 1x PCIe x 8 + 1 x PCIe x 16 |
| FPC-8213 | Fanless system w/ 2x PCI |




All specifications are subject to change without notice.





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™ i9-13900E | Intel® 13 th Gen. Core™ i9-13900E processor, 36M, 1.8G |  |
| Core™ i9-13900TE | Intel® 13 th Gen. Core™ i9-13900TE processor, 36M, 1.0G | |
| Core™ i7-13700E | Intel® 13 th Gen. Core™ i7-13700E processor, 30M, 1.9G | |
| Core™ i7-13700TE | Intel® 13 th Gen. Core™ i7-13700TE processor, 30M, 1.1G | |
| Core™ i5-13500E | Intel® 13 th Gen. Core™ i5-13500E processor, 24M, 2.4G | |
| Core™ i5-13500TE | Intel® 13 th Gen. Core™ i5-13500TE processor, 12M, 1.3G | |
| Core™ i3-13100E | Intel® 13 th Gen. Core™ i3-13100E processor, 12M, 3.3G | |
| Core™ i3-13100TE | Intel® 13 th Gen. Core™ i3-13100TE processor, 12M, 2.4G | |

*CTOS means Configure-to-Order Service.

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Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

US

sales@assured-systems.com

Sales: +1 347 719 4508
Support: +1 347 719 4508

1309 Coffeen Ave
Ste 1200
Sheridan
WY 82801
USA

EMEA

sales@assured-systems.com

Sales: +44 (0)1785 879 050
Support: +44 (0)1785 879 050

Unit A5 Douglas Park
Stone Business Park
Stone
ST15 0YJ
United Kingdom

VAT Number: 120 9546 28
Business Registration Number: 07699660