

FPC-9309W-G5

Ruggedized Edge AI Computing Platform supporting NVIDIA® RTX-5090 GPU Card,
Intel®Core™ Ultra Processor (Series 2)



Features

- Intel® Core™ Ultra Processor (Series 2)
- Supports NVIDIA® RTX-50 series up to 575W GPU (up to 357.6mm length)
- Wide Range DC power input (24~48V)
- HDMI x 2 + DP x 2 (2 independent display)
- Power on/off delay control/ Configurable ignition power control
- TPM2.0 support
- 2 x outside accessible SATA SSD + 2 x NVMe SSD , supporting RAID 0,1,5
- 8 x USB3.2 supports up to 10Gbps data transfer rate
- Front-accessible I/O support
- PWM FAN control support
- 1 x M.2 (NGFF) B-Key(2242/2280/3052) socket for storage or 5G / LTE
- 1 x M.2 (NGFF) E-Key(2230) socket for Wi-Fi / BT

System

CPU	Intel® Core™ Ultra Processors (Series 2) in LGA1851 socket (35W / 65W CPU)
Memory	4 x DDR5 U-DIMM sockets, Supporting 5600MHz SDRAM up to 192GB (ECC /Non-ECC)
Chipset	Intel® W880E
Graphics	Integrated Intel® HD Graphics
ATA	2 x Serial ATA ports with 600MB/s HDD transfer rate
LAN Chipset	4 x Intel® WGI226LM 2.5GigE LAN
Watchdog Timer	1~255 levels reset

I/O

Serial Port	2 x RS-232/422/485 configurable (default RS-232) 2 x RS-232
USB Port	8 x USB 3.2 Gen2 (10Gbps) / 2.0 ports 1x USB 2.0 (Internal pin header)
LAN	4 x RJ-45 ports for GbE/2.5GbE
Video port	2 x HDMI 2.1 up to 4K@60Hz 2 x Display Port 2.1 up to 4K@60Hz
Digital I/O	1x DB25 connector for DIO (8 in /8 out) port
Optional port	1x RJ-45 for Optional OOB port (Option)
Audio	Mic-in/Line-out

Expansion Bus	1 x mini-PCI Express Slot interconnected with SIM card sockets for optional WiFi/BT/3G/LTE/GPS (PClex1+USB2.0, Full Size) 1 x M.2 E key (2230) with PClex1+USB2.0, for Wireless 2 x M.2 B key (2242/3052) w/ (PClex1+USB3.0+SATA) interconnected with SIM for 5G / LTE expansion or for storage (either one) 2 x PCIe x16 slots for 600W GPU card or Dual 300W GPU 3 x PCIe x 8 slots (via 4 lanes)
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Environmental

Operating Temp.	65W TDP CPU : -20 ~ 55°C (-4 ~ 131°F) 35W TDP CPU : -20 ~ 70°C (-4 ~ 158°F) w/ NVIDIA® RTX-5090 : -20 ~ 45°C (-4 ~ 112°F)
Storage Temp.	-40 ~ 85°C (-40 ~ 185°F)
Operating Humidity	10 ~ 95% @ 50°C (non-condensing)
Vibration	Comply with MIL-STD-810G, Method 514.6, Category 4 w/ SSD
Shock	Comply with MIL-STD-810G, Method 516.6, Table 516.6-II, 20G

Qualification

Certification	CE, FCC Class A
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Power Requirement

Power Input	DC 24~48V input (w/ 4 pin DC input terminal block --++)
Ignition Switch	2-pin terminal block: IGN / Remote SW (default IGN)

Storage

Type	2 x 2.5"/3.5" drive bays (outside accessible) 2 x M.2 M key NVMe SSD (2242/2280) with PCIe x 4
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Mechanical

Construction	Metal
Mounting	Wall-mount
Weight	7.4 kg (16.31lb)
Dimensions (W x D x H)	220 x 380 x 320 mm

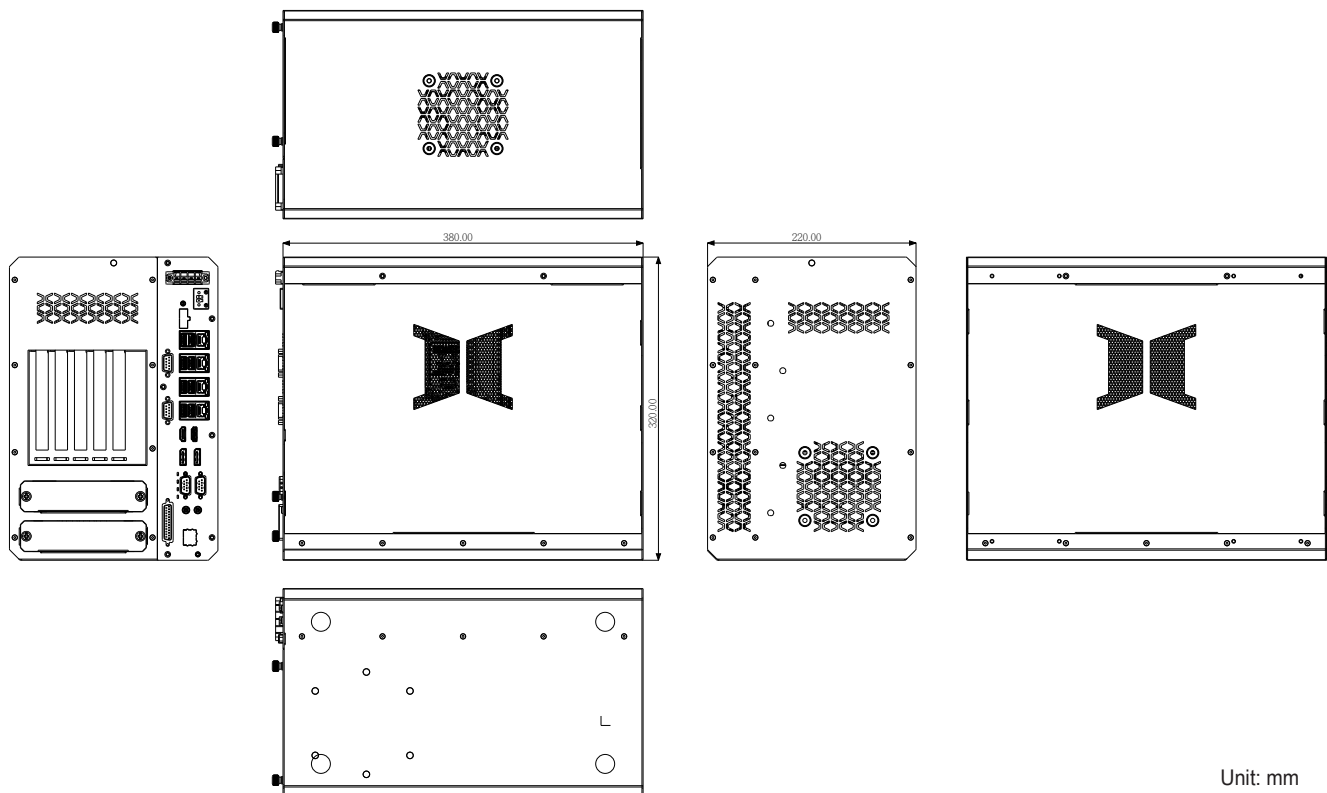
OS Support

Windows 10/11 IoT Enterprise 2021
Linux (Kernal 6.11)

Ordering Information

FPC-9309W-G5	Ruggedized Edge AI Computing Platform supporting NVIDIA® RTX-5090 GPU Card, Intel®Core™ Ultra Processor (Series 2)
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Dimensions



Optional Accessories

WMK-9300	Wall-mount kit for FPC-9309W-G5	
PAC-600W6C-MW	600W AC/DC 24V DIN Rail adapter kit	
PAC-1000W6C-MW	1000W AC/DC 24V DIN Rail adapter kit	

Optional Configuration (CTOS* Kit)

ML-5C-8G/16G/32G/48G	DDR5-5600 8GB/16GB/32GB/48G Long DRAM	
WIFI-IN3550	Intel AX210 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™ Ultra 9 285	Intel® Core™ Ultra 9 285 processor, L2/36M, 2.5G	
Core™ Ultra 9 285T	Intel® Core™ Ultra 9 285T processor, L2/36M, 1.4G	
Core™ Ultra 7 265	Intel® Core™ Ultra 7 265 processor, L2/30M, 2.4G	
Core™ Ultra 7 265T	Intel® Core™ Ultra 7 265T processor, L2/30M, 1.5G	
Core™ Ultra 5 245	Intel® Core™ Ultra 5 245 processor, L2/24M, 3.5G	
Core™ Ultra 5 245T	Intel® Core™ Ultra 5 245T processor, L2/24M, 2.2G	

*CTOS means Configure-to-Order Service.