

BT-FPC-5211 series

Intel® 12th Gen Core™ Fanless Edge AI Computer supporting Nvidia® RTX-A2000

Features

- 12th Generation Core™ i9/i7/i5/i3 Processor
- Up to 60W GPU MXM module expansion
- 4 x Gigabit PoE ports
- 2x DisplayPort, 1x HDMI and 1x DVI
- Triple display support (DVI-D/HDMI/DP)
- 2x mPCIe for optional Wi-Fi/3G/4G/GPS or I/O expansion

System	
CPU	Intel® 12th generation Core™ i9/i7/i5/i3 processor in LGA1700 socket (Max 35W CPU)
Chipset	Intel® R680E
Memory	2 x 262-pin DDR5 SO-DIMM sockets, supporting 4800 MHz SDRAM up to 64GB (ECC/ Non-ECC)
Graphics	Intel® HD Graphics 770
LAN chipset	1 x Intel® WG1219LM GbE controller w/ iAMT 16.0 FPC-5211-2M4: - 3 x Intel® I226 2.5GbE controllers FPC-5211-2P4: - 2 x Intel® I226 2.5GbE controllers for PoE - 2 x Marvell® 10GbE controllers for PoE FPC-5211-M4: - 3 x Intel® I226 2.5G GbE controllers - 2 x Intel® I210 GbE controllers for PoE - 2 x Intel® I226 2.5G GbE controllers for PoE
Watchdog timer	1~255 levels reset
Storage	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)
OS support	Windows 10 IoT 64-bit Ubuntu 20.04
I/O	
Serial Port	2 x RS-232 / 422 / 485 configurable ports via DB-9 connectors (Default RS232, Switch via BIOS) 2 x RS-232 via DB-9 connectors
USB	8 x USB 3.2 / 2.0 ports
LAN	4 x RJ-45 connectors for GbE FPC-5211-2M4: - 4 x M12 X-coded connectors by - 2 x Intel® I226(2.5GbE) + - 2 x Marvell® 10GbE, max 60W supports 802.3at POE FPC-5211-2P4: - 4 x RJ-45 connectors for GbE - 2 x Marvell® 10GbE, max 60W supports 802.3at POE+ FPC-5211-M4: - 4 x M12 X-coded connectors by - 2 x Intel® I210(1GbE) + - 2 x Intel® I226(2.5GbE) supports 802.3af POE
Video	2 x DP 1.4a from MXM module or Intel Graphics 1 x HDMI 2.0b female conn. for digital video output 1 x DVI-I female conn. for digital/ analog video output * Supports 4 independent displays
Digital I/O	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
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 Wi-Fi/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 1 x M.2 E key (2230) with PCIex1 + USB2.0 + CNVi) for Wireless

Front



Rear



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Environmental	
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
Operating Temp.	FPC-5211-2M4 /FPC-5211-2P4 : -20 ~ 50°C (-4 ~122°F), ambient w/ air flow -20 ~ 60°C (-4 ~140°F), ambient w/ air flow (w/ External SMART FAN kit) FPC-5211-M4: -20 ~ 60°C (-4 ~140°F), ambient w/ air flow -20 ~ 70°C (-4 ~158°F), ambient w/ air flow
Storage Temp.	-40 ~ 85°C (-40 ~ 185°F)
Humidity	10 ~ 95% @ 60°C (non-condensing) (2M4/2P4) 10 ~ 95% @ 70°C (non-condensing) (M4)
Mechanical	
Power Input	DC 9~36V input (w/ 4-pin DC input terminal block)(V+ ,V+, V-, V-)
Max. Power consumption	180W
Construction	Aluminum Alloy
Mounting	Wall-mount
Dimensions (W x D x H)	285 x 230 x 90mm (9.84" x 11.50" x 4.72")
Weight	5.83 Kg (12.85lb)
Certification	CE, FCC Class A, E13

Technical drawing

