***AI Solution***

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| --- | --- | --- |
| **FLEX-BX200** | **2U AI Modular PC with 8th Generation LGA1151** |  |
| **Core™ i7/i5/i3 and Pentium® Processor** |  |



*Hardware Feature*

● 2U AI Modular PC with 8th Generation LGA 1151 Intel® Core™ i7/i5/i3 and Pentium® processor

● Four hot-swappable and accessible HDD drive bays, support RAID 0/1/5/10

● Two PCIe 3.0 by 4 and two PCIe 3.0 by 8 slots

● Dual M.2 2280 PCIe Gen 3.0 x4 NVMe™ SSD support

● QTS-Gateway support

*Specifications*



|  |  |  |  |
| --- | --- | --- | --- |
| **Model** |  | **FLEX-BX200-Q370** |  |
|  | CPU | 8th Genertion Intel® Core™ i7/i5/i3 porcessors in the LGA 1151 package |  |
|  | (Please choose the TDP of the the processor under 65W) |  |
|  |  |  |
|  | Chipset | Intel® 300 Series Chipsets Q370 (Coffee Lake) |  |
| System | Memory | 2 x 288-pin 2666/2400 MHz dual-channel DDR4 unbuffered DIMM supporting up to 64GB |  |
|  | Graphics Engine | Intel® HD Graphics Gen 9 Engines with Low power 16 execution unit, supports DX2015, OpenGL 5.X and OpenCL2. |  |
|  | x, ES 2.0 |  |
|  |  |  |
|  | Ethernet | Intel® I211 controller |  |
| Storage |  | 4 x accessible 2.5" HDD/SSD SATA 6 Gb/s bay (with RAID 0/1/5/10 support) with LED indicator |  |
|  | 2 x NGFF M.2(2280) M Key socket (support NVMe SSD) |  |
|  |  |  |
|  |  | 1 x HDMI output |  |
|  |  | 2 x GbE LAN |  |
|  |  | 6 x USB 3.1 Gen 1 (5Gb/s) Type-A |  |
| I/O Ports and Switches | 2 x RS-232 DB-9 type |  |
| 1 x Mic in1 x Line out |  |
|  |  | 1 x AC Inlet |  |
|  |  | Power button with power LED (power on=Blue) |  |
|  |  | AT/ATX mode switch |  |
|  |  | Reset button |  |
| Expansion Slots |  | 2 x PCIe 3.0 by 8 (by 16 slot) |  |
|  | 2 x PCIe 3.0 by 4 (Maximum card size supported: 68 mm x 167 mm) |  |
|  |  |  |
| Thermal Solution | System Fan x3, CPU Cooler x1 |  |
|  |  | AC input ATX power supply |  |
|  |  | 1. 250W power supply |  |
|  |  | - Input: 115VAC~230VAC, 50/60Hz |  |
| Power supply |  | - Output (Max.): 3.3V@12A, 5V@14A, 12V@25A, -12V@0.3A,+5Vsb@3A |  |
|  | 2. 350W power supply (Build to Order) |  |
|  |  |  |
|  |  | - Input: 115VAC~264VAC, 50/60Hz |  |
|  |  | - Output (Max.): 3.3V@14A, 5V@16A, 12V@29A, -12V@0.3A,+5Vsb@3A |  |
|  |  | -Efficiency: Full load (100%) 87%, Typical load (50%) 90%, Light load (20%) 87% |  |
| Watchdog Timer | Software Programmable support 1~255 sec. System reset |  |
|  | Chassis Construction | Metal Housing |  |
|  | Mounting | Wall and Rack Mount |  |
| Construction | Color | Black |  |
|  |  |  |
|  | Dimensions (LxDxH) | 357 x 230 x 88 |  |
|  | (mm) |  |
|  |  |  |
|  | Weight (kg) Net/Gross | 4/6 |  |
|  | Operating Temperature | -20°C ~ 50°C (with SSD and TDP 65W processor) |  |
|  | -20°C ~ 40°C (with HDD or add-on cards without fan) |  |
|  |  |  |
|  | Storage Temperature | -20°C ~ 60°C |  |
| Environmental | Operating Humidity | 5% ~95%, non-condensing |  |
|  | Vibration | 5~17Hz, 0.1 double amplitude displacement 17~640Hz 1.5G acceleration peak to peak |  |
|  | shock | 10G acceleration part to part (11ms) |  |

**FLEX-BX200-2019-V10**

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|  |  |  |  | ***w w w. i e i w o r l d . c o m*** |  |
| *Ordering Information* |  |  |  |  |
|  | Part No. | Description |  |  |  |
|  |  |  |  |  |  |
|  | FLEX-BX200-Q370-P/25-R10 | 2U | AI Modular Box PC, Intel® Pentium® Gold G5400T Processor (2-core, 4-thread, 3.10 GHz) TDP 35W, |  |  |
|  | two PCIe x4 and two PCIe x8 slots, four HDD bays, 250W PSU, R10 |  |  |
|  |  |  |  |
|  | FLEX-BX200-Q370-i3/25-R10 | 2U | AI Modular Box PC, Intel® Core™ i3-8100T Processor (4-core, 4-thread, 3.10 GHz) TDP 35W, two |  |  |
|  | PCIe x4 and two PCIe x8 slots, four HDD bays, 250W PSU, R10 |  |  |
|  |  |  |  |
|  | FLEX-BX200-Q370-i5/25-R10\* | 2U | AI Modular Box PC, Intel® Core™ i5-8500T Processor (6-core, 6-thread, 2.1 GHz) TDP 35W, two PCIe |  |  |
|  | x4 and two PCIe x8 slots, four HDD bays, 250W PSU, R10 |  |  |
|  | FLEX-BX200-Q370-i7/25-R10\* | 2U | AI Modular Box PC, Intel® Core™ i7-8700T Processor (6-core,12-thread,2.4 GHz) TDP 35W, two PCIe |  |  |
|  | x4 and two PCIe x8 slots, four HDD bays, 250W PSU, R10 |  |  |
|  |  |  |  |
|  | FLEX-BX200-Q370-P/35-R10\* | 2U | AI Modular Box PC, Intel® Pentium® Gold G5400T Processor (2-core, 4-thread, 3.10 GHz) TDP 35W, |  |  |
|  | two PCIe x4 and two PCIe x8 slots, four HDD bays, 350W PSU, R10 |  |  |
|  |  |  |  |
|  | FLEX-BX200-Q370-i3/35-R10\* | 2U | AI Modular Box PC, Intel® Core™ i3-8100T Processor (4-core, 4-thread, 3.10 GHz) TDP 35W, two |  |  |
|  | PCIe x4 and two PCIe x8 slots, four HDD bays, 350W PSU, R10 |  |  |
|  | FLEX-BX200-Q370-i5/35-R10\* | 2U | AI Modular Box PC, Intel® Core™ i5-8500T Processor (6-core, 6-thread, 2.1 GHz) TDP 35W, two PCIe |  |  |
|  | x4 and two PCIe x8 slots, four HDD bays, 350W PSU, R10 |  |  |
|  | FLEX-BX200-Q370-i7/35-R10\* | 2U | AI Modular Box PC, Intel® Core™ i7-8700T Processor (6-core,12-thread,2.4 GHz) TDP 35W, two PCIe |  |  |
|  | x4 and two PCIe x8 slots, four HDD bays, 350W PSU, R10 |  |  |
|  |  |  |  |
|  |  |  |  |  |  |  |
| \*Build to order |  |  |  |  |  |
| *Packing List* |  |  |  |  |  |
|  | Item | Q’ty | Remark |  |
|  | 32702-000200-100-RS | 1 |  | European power cord, 1830mm |  |
|  | 41020-0521C2-00-RS | 2 |  | wall mount kit, black |  |
|  | 44035-040062-RS | 4 |  | M4\*6 oval head screw for wall mount kit, black |  |
|  |  | 1 |  | Key for HDD cover |  |
| *Options* |  |  |  |  |  |
|  | Part No. | Description |  |  |  |
|  | FLEX-BXRK-R10 | Rack mount kit |  |



**FLEX-BX200-2019-V10**

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*I/O Interface*



HDD status LED

Power button with

power LED

GbE LAN

2 x PCIe 3.0 x8 (x16 slot)

2 x PCIe 3.0 x4 (x4 slot)

AC Inlet 

|  |  |
| --- | --- |
| 4 x Hot swappable 2.5”HDD HDMI 2.0 output 2 x | RS-232 |
| 6 x USB 3.1 Gen 1 | Audio (Mic-in, Line-out) |



*FLEX-BX200*

*Dimensions (Unit: mm)*

**FLEX-BX200-2019-V10**

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**Configurable Systems**



**Panel Kit Modules**



*Specifications*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Model | FLEX-PLKIT-F15 | FLEX-PLKIT-F17 | FLEX-PLKIT- |  | FLEX-PLKIT- | FLEX-PLKIT- | FLEX-PLKIT- |  |
| FW15 |  | FW19 | FW22 | FW24 |  |
|  |  |  |  |  |  |
|  | LCD Size | 15” | 17” | 15.6" |  | 18.5" | 21.5” | 23.8” |  |
|  | Max. Resolution | 1024x768 | 1280x1024 | 1366x768 |  | 1366x768 | 1920x1080 | 1920x1080 |  |
|  | Brightness (cd/m²) | 450 | 350 | 400 |  | 400 | 250 | 250 |  |
| TFT LCD | Contrast Ratio | 800:1 | 1000:1 | 500:1 |  | 1000:1 | 1000:1 | 3000:1 |  |
|  | LCD Color | 16.2M | 16.7M | 16.2M |  | 16.7M | 16.7M | 16.7M |  |
|  | Viewing Angle (H/V) | 160°/150° | 170°/160° | 170°/160° |  | 170°/160° | 170°/160° | 178°/178° |  |
|  | Backlight MTBF | 70,000 | 50,000 | 50,000 |  | 50,000 | 30,000 | 30,000 |  |
|  | (Hrs) |  |  |
|  |  |  |  |  |  |  |  |  |
| Touch Screen |  | PCAP touch with 10-point multitouch and anti-glare coating |  |  |
| Video Interface |  |  | LVDS |  |  |  |  |
| IP Rating |  |  | IP66-rated front panel |  |  |  |
| Other |  |  | Support FLEX-BX200-Q370 only |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

*Ordering Information*



|  |  |
| --- | --- |
| Part No. | Description |
|  |  |
| FLEX-PLKIT-F15/PC-R10 | 15" 450cd/m² 1024 x768 FLEX modular resistive touch window/LCD kit, R10 |
| FLEX-PLKIT-F17/PC-R10 | 17" 350cd/m² 1280 x 1024 FLEX modular PCAP touch window/LCD kit, R10 |
| FLEX-PLKIT-FW15/PC-R10 | 15.6" 400cd/m² 1366 x 768 FLEX modular PCAP touch window/LCD kit, R10 |
| FLEX-PLKIT-FW19/PC-R10 | 18.5" 400cd/m² 1366 x 768 FLEX modular PCAP touch window/LCD kit, R10 |
| FLEX-PLKIT-FW22/PC-R10 | 21.5" 250cd/m² 1920 x 1080 FLEX modular PCAP touch window/LCD kit, R10 |
| FLEX-PLKIT-FW24/PC-R10 | 23.8" 250cd/m² 1920 x 1080 FLEX modular PCAP touch window/LCD kit, R10 |
|  |  |

*Options*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Item | FLEX-PLKIT-F15 | FLEX-PLKIT-FW15 | FLEX-PLKIT-F17 | FLEX-PLKIT-FW19 | FLEX-PLKIT-FW22 | FLEX-PLKIT-FW24 |
| Panel Mount Kit | FPK-12-R10 | FPK-14-R10 | FPK-13-R10 | FPK-13-R10 | FPK-13-R10 | FPK-14-R10 |
| Rack Mount Kit | FRK15C-R10 | FRKW15C-R10 | FRK17C-R10 | FRKW19C-R10 | N.A. | N.A. |



|  |
| --- |
| FLEX-BX200 Series |
| **+** | **=** PPC-FxxC Series |

FLEX-PLKIT Series

**FLEX-BX200-2019-V10**

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*PPC-F15C-Q370 Dimensions (Unit: mm)*

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | 358.10 |  |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  |  |  |  |
|  | 44.7520 | 20 |  |  |  |  |  |  |  |  |
|  | 167.80 |  |  |  |  |  |  |  |  |  |
| 7.50 |  | 378.50 |  |  |  |  |  | 117.96 | 361.1 |  |
|  |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  | 110 |  |
|  |  |  |  |  |  |  |  |  |
| 7534. |  |  |  |  |  |  |  | Suggested cut out size |  |
|  | 306 |  |  |  |  | 34.75 |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  | 20 |  |  |  |
|  |  |  |  | 230 | 303 | 170.60 |  | 60282. |  |
| 20 |  |  |  |  |  |  | 20 |  | 53.60 |  |
| 34.75 |  |  |  |  |  |  | 10 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | 14.50 |  |  |  |
| 34.75 | 20 |  | 20 | 34.75 |  | 7.50 |  |  |  |  |
|  |  |  |  | 10 |  |  |  |  |



|  |
| --- |
| 285.6 |

*PPC-FW15C-Q370 Dimensions (Unit: mm)*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 400.70 |  |  |  |  |
| 376.10 |  |  |  |  |
| 357 |  |  |  |  |
|  | 7.50 |  |  |  |
| 138.05 | 138.05 |  | 121 |  |
|  |  | 33 |  |
| 400.10 |  |  |  |
| 27.34 | 23 | 3.50 |  |
| 345.43 |  |  |
|  | 30.71 |  | 12 |  |
|  | 194.7430253.139.30 |  |  |  |

Suggested Cut out Size

Scale 1:2

379.1

|  |
| --- |
| 3232. |

|  |  |  |  |
| --- | --- | --- | --- |
| 86 | 339.90 | 114 |  |
|  |  |

**FLEX-BX200-2019-V10**

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**Configurable Systems**



*PPC-F17C-Q370 Dimensions (Unit: mm)*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | 388 |  |  |  |  |  |
| 3123 | 6 |  |  |  |  |  |
| 8 |  |  |  |  |  |
|  | 150 | 150 | 6 |  |  |  |
|  |  |  |  |  |
|  | 408.40 |  |  | 111 |  |  |
|  | 204.20 | 204.20 |  | 88 |  |  |
|  |  | 34.20 |  |  |  |  |
|  |  |  | 33.5570169. |  |  |  |
| 170 |  |  | 341.40 | 170 | 321 |  |
|  |  |  | 70171. |  |  |  |

391

Suggested

Cutout Size

|  |
| --- |
| 324 |

150 150



*PPC-FW19C-Q370 Dimensions (Unit: mm)*

469.80

|  |
| --- |
| 289.20 |

120.80

|  |
| --- |
| 20.10 |

|  |
| --- |
| 267.20  |

|  |
| --- |
| 230 |

447.80

Suggested

Cut Out Size

357

**FLEX-BX200-2019-V10**

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**Configurable Systems**



*PPC-FW22C-Q370 Dimensions (Unit: mm)*

533

180 180

Cut out Size

|  |  |  |  |
| --- | --- | --- | --- |
| 357 | 88 | 29.80 | 550.40 |

|  |  |  |
| --- | --- | --- |
|  |  | 64.70 |
| 180 | 338 | 230 |

2.30 8

530

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | 8.50 |  |
| 17.50 | 2.50 | 6 |  |
|  |  |  |



|  |
| --- |
| 341 |

|  |
| --- |
| 40358. |

*PPC-FW24C-Q370 Dimensions (Unit: mm)*

574.6

357

|  |
| --- |
| 36. |

155.2 155.2 155.2

600

528.6 35.7

|  |
| --- |
| 37 |

|  |  |
| --- | --- |
|  | Suggested Cut Out Size |
|  | Scale 1:2 |
| 31 |  |
| 232.3 | 577.6 |

|  |
| --- |
| 359.6 |

|  |  |  |
| --- | --- | --- |
| 298 | 6356. | 166.6 |
| 382 |  |

|  |  |  |  |
| --- | --- | --- | --- |
| 155.2 | 155.2 | 155.2 | 119 |
|  | 77.6 |  |  |

**FLEX-BX200-2019-V10**