# *Hardware Feature*

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

FLEX-BX200



***Specifications***

* 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

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| **Model** | | **FLEX-BX200-Q370** |
| System | 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) |
| 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) |
| I/O Ports and Switches | | 1 x HDMI output 2 x GbE LAN  6 x USB 3.1 Gen 1 (5Gb/s) Type-A 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 |
| Power supply | | AC input ATX power supply   1. 250W power supply   - Input: 115VAC~230VAC, 50/60Hz  - Output (Max.): 3.3V@12A, 5V@14A, 12V@25A, -12V@0.3A,+5Vsb@3A   1. 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 |
| Construction | Chassis Construction | Metal Housing |
| Mounting | Wall and Rack Mount |
| Color | Black |
| Dimensions (LxDxH) (mm) | 357 x 230 x 88 |
| Weight (kg) Net/Gross | 4/6 |
| Environmental | 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 |
| 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) |

# *Ordering Information*

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| --- | --- |
| 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 |

***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)

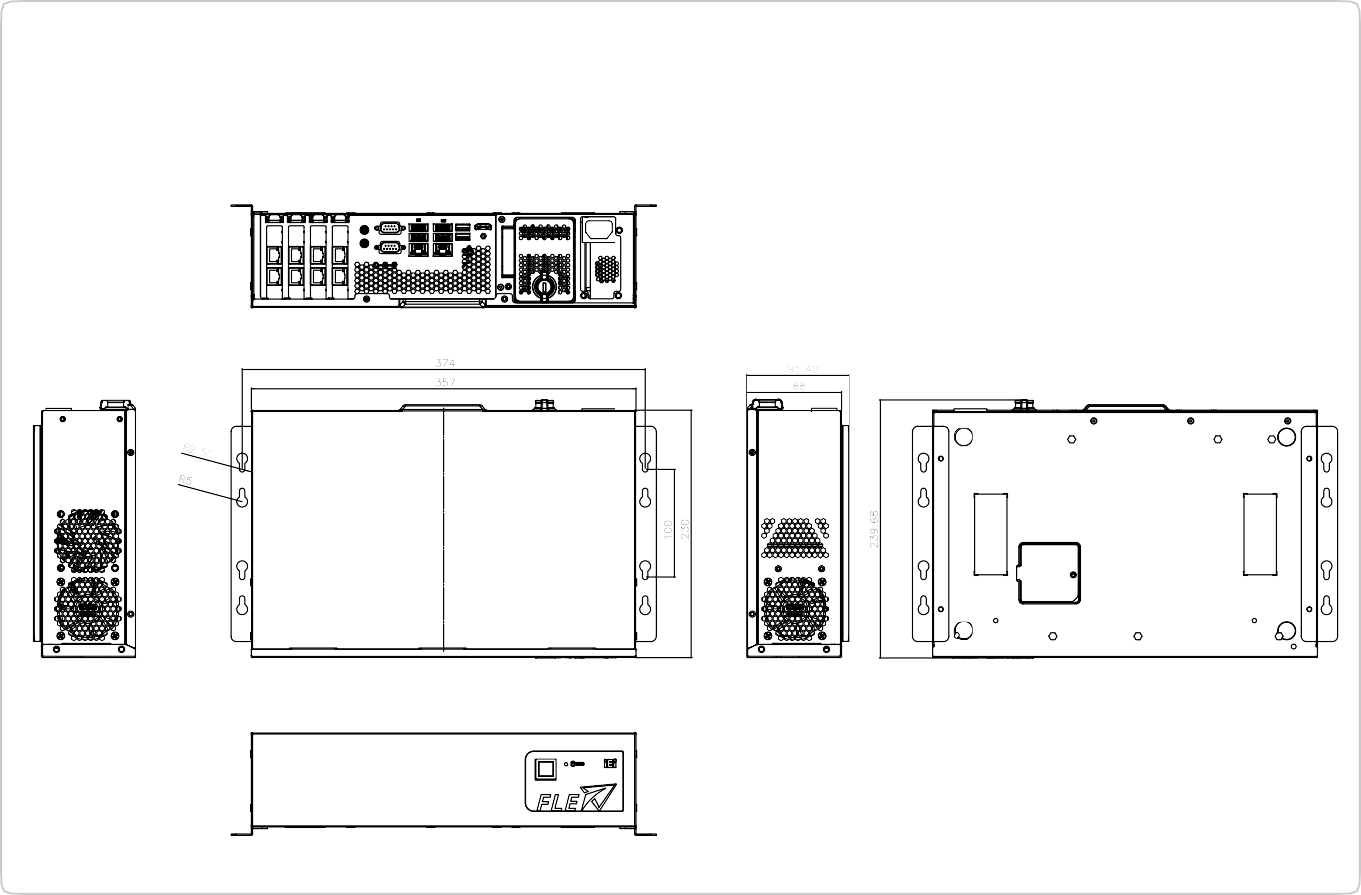
AC Inlet

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 Series

**+**

FLEX-PLKIT Series

**=**

PPC-FxxC Series

FLEX-BX200-2019-V10

Configurable Systems

Panel Kit Modules

# *Specifications*



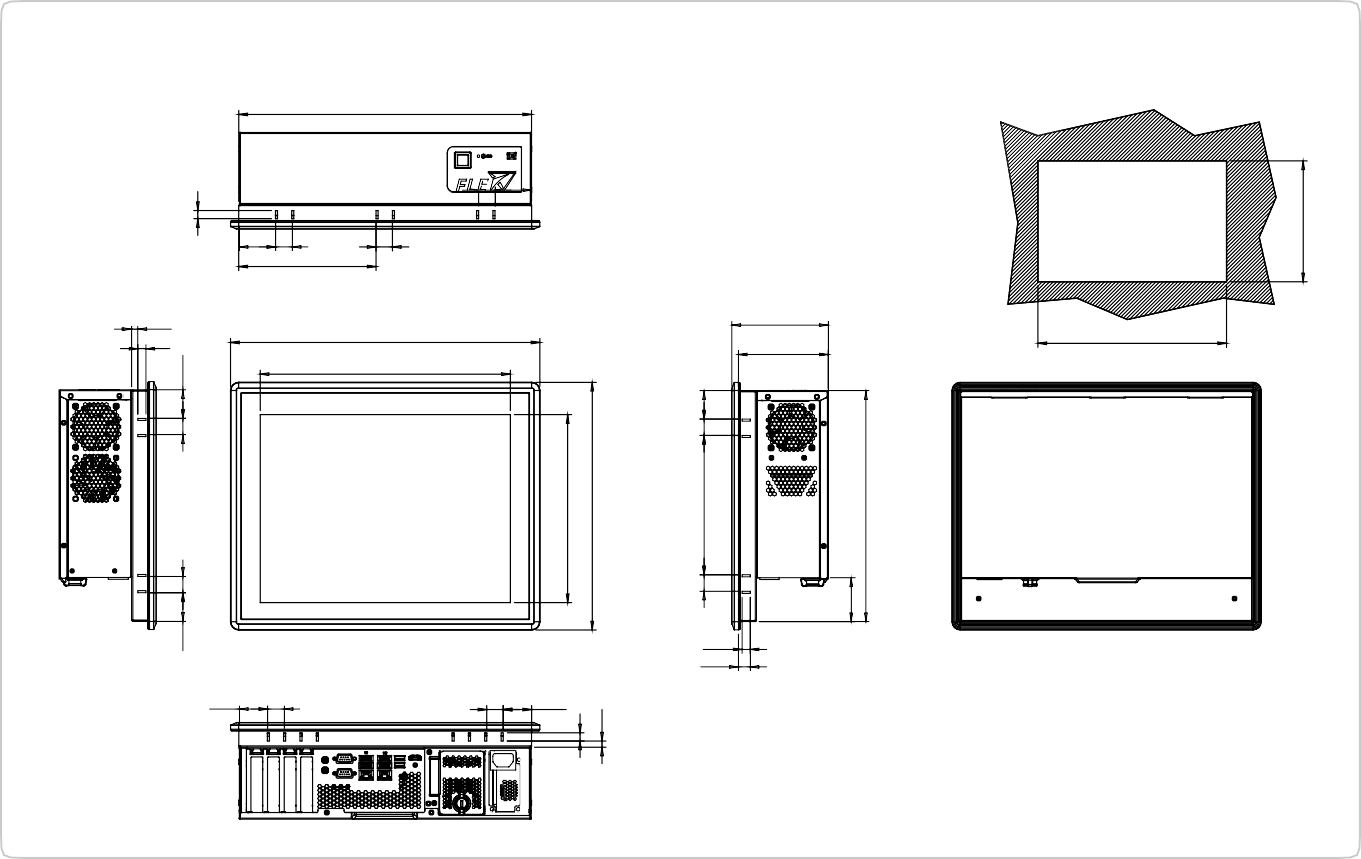
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| --- | --- | --- | --- | --- | --- | --- | --- |
| Model | | FLEX-PLKIT-F15 | FLEX-PLKIT-F17 | FLEX-PLKIT- FW15 | FLEX-PLKIT- FW19 | FLEX-PLKIT- FW22 | FLEX-PLKIT- FW24 |
| TFT LCD | LCD Size | 15” | 17” | 15.6" | 18.5" | 21.5” | 23.8” |
| Max. Resolution | 1024x768 | 1280x1024 | 1366x768 | 1366x768 | 1920x1080 | 1920x1080 |
| Brightness (cd/m²) | 450 | 350 | 400 | 400 | 250 | 250 |
| 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 (Hrs) | 70,000 | 50,000 | 50,000 | 50,000 | 30,000 | 30,000 |
| 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. |



20 34.75

34.75 20

10

14.50

361.1

Suggested cut out size

306

110

378.50

117.96

7.50

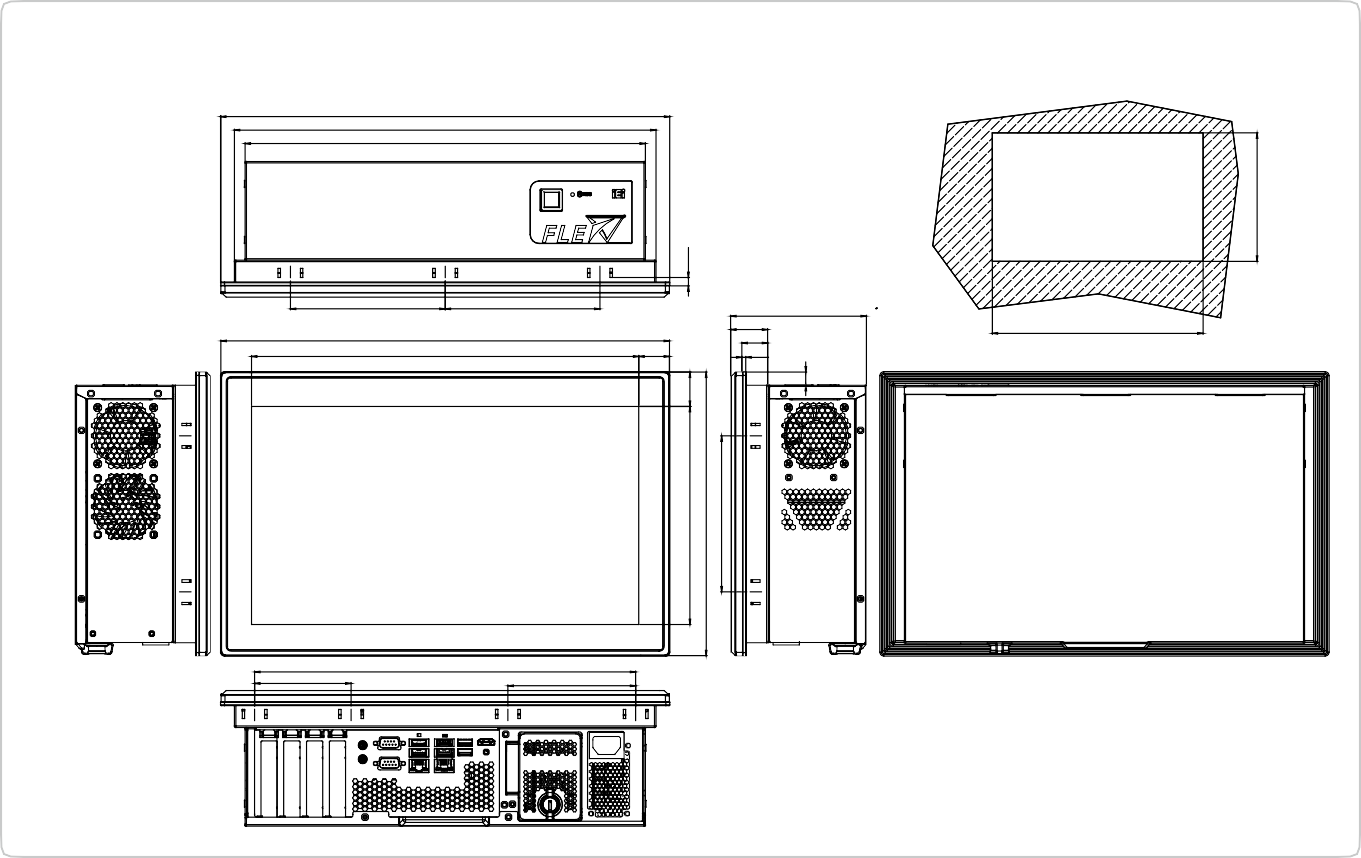
10

44.7520 20

167.80

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

358.10



114

86

339.90

3.50

27.34

379.1

33

23

400.10

345.43

121

138.05

138.05

Suggested Cut out Size

Scale 1:2

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

400.70

376.10

357

34.75

20

20

34.75

10

230

303

10

7.50

194.74

253.30

139.30

30.71

7.50

20

170.60

20 34.75

12

53.60

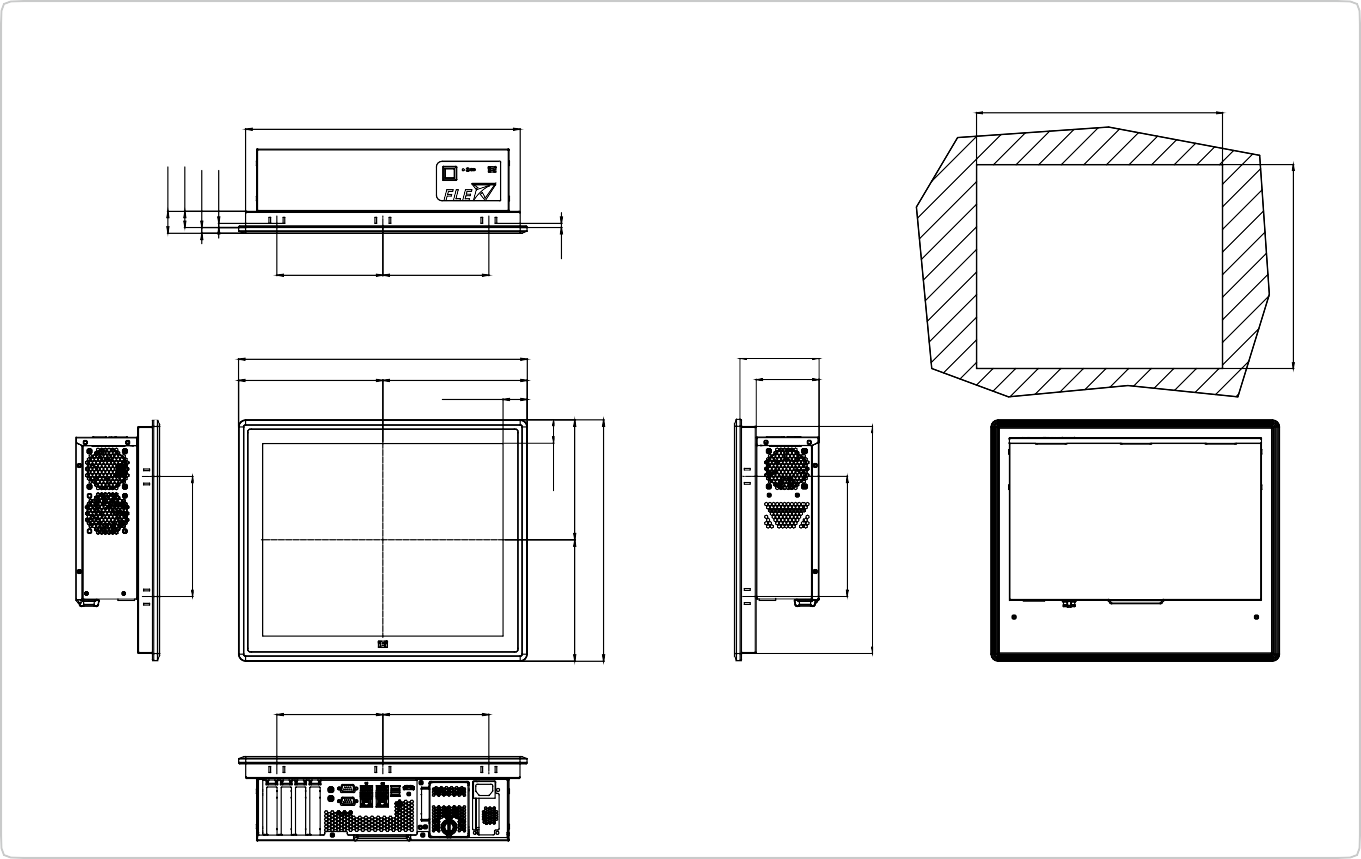
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232.3

285.6



Configurable Systems



150

150

111

88

204.20

34.20

204.20

408.40

Suggested Cutout Size

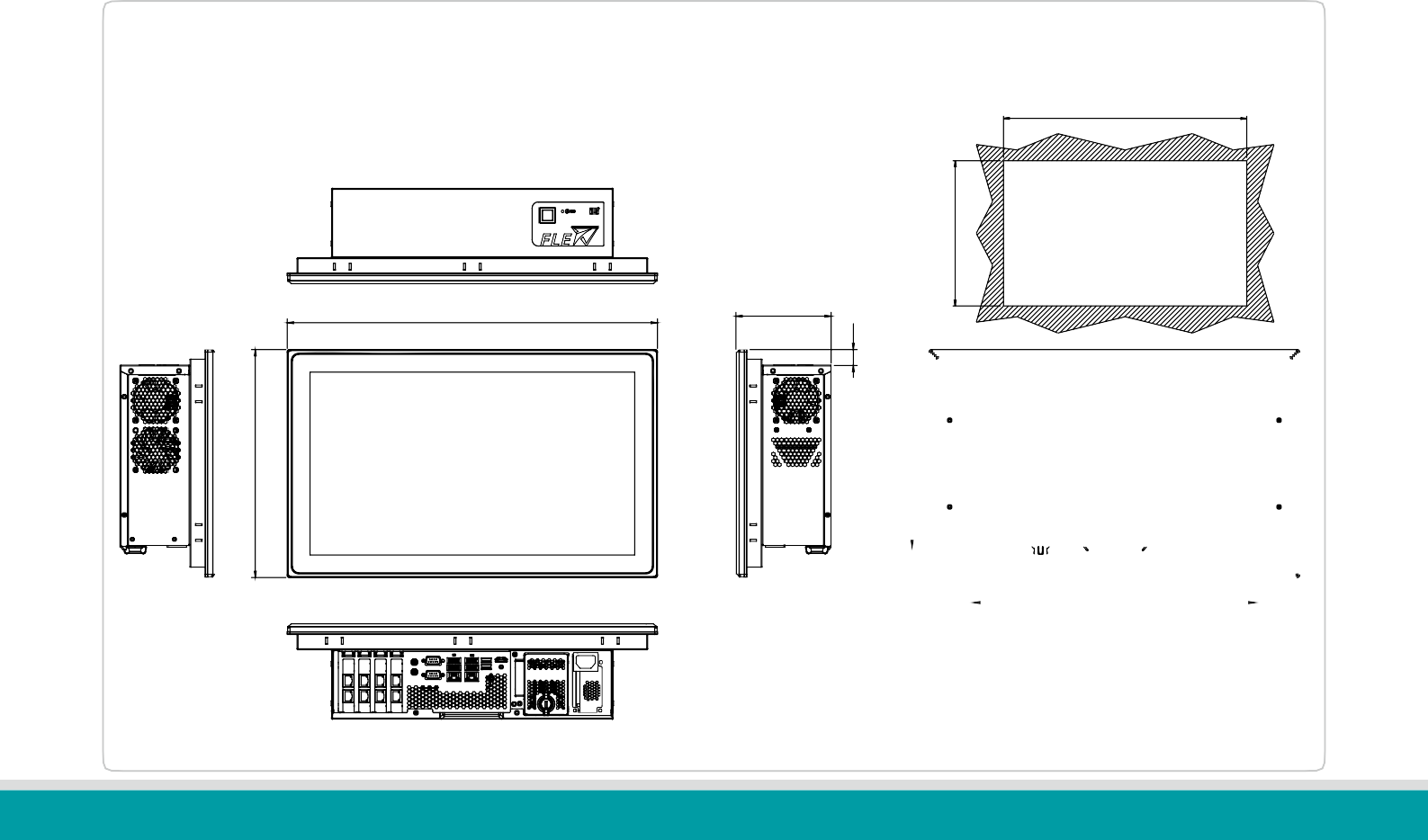
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150

388

391

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



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

447.80

469.80

120.80

FLEX-BX200-2019-V10

Suggested Cut Out Size

31

23

8

6

289.20

170

33.55

169.70

6

171.70

341.40

20.10

170

321

230

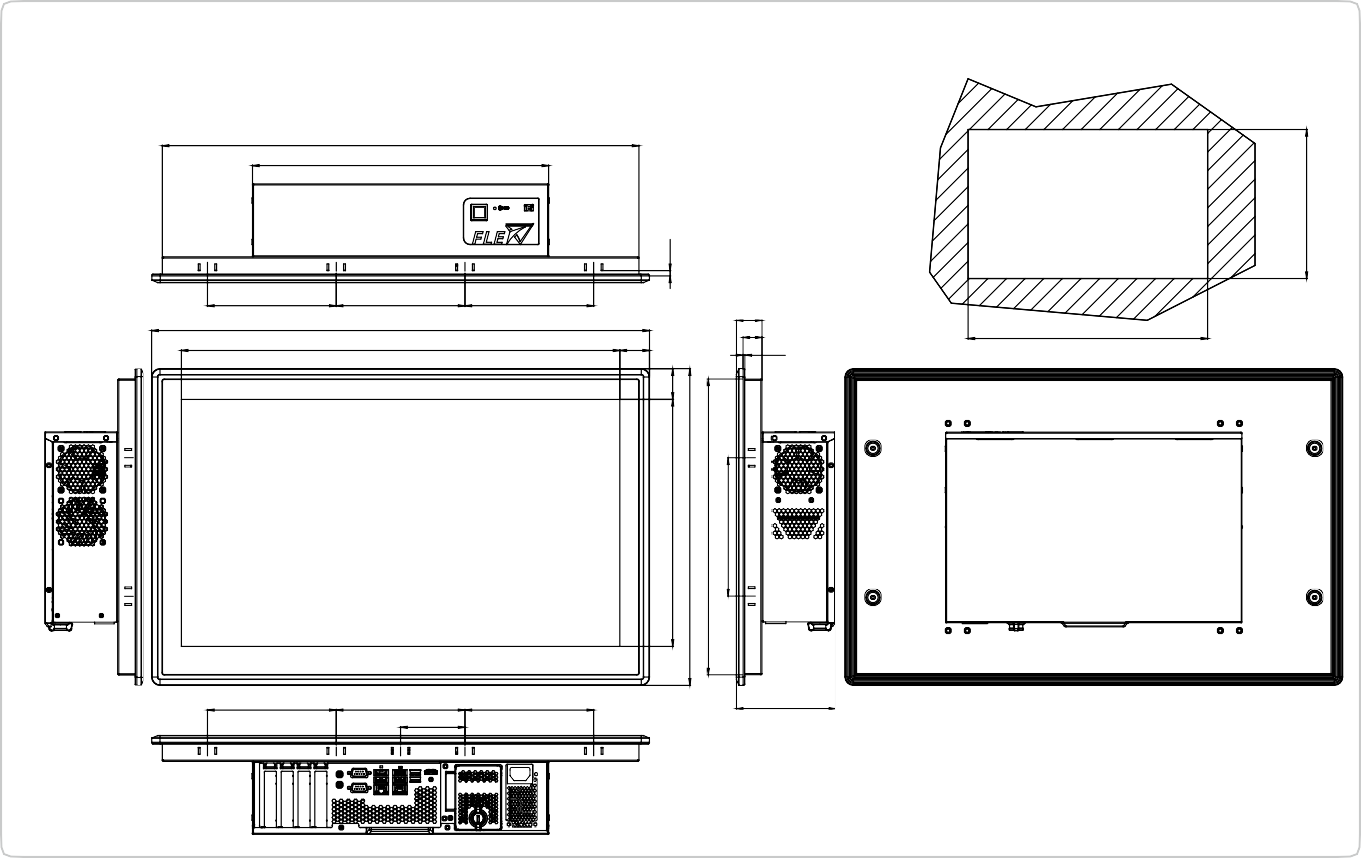
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324



Configurable Systems

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|  |  |  |  |
|  |  |  |
|  | | 357 |  |



119

155.2

155.2

77.6

155.2

577.6

31

23

2.3

35.7

155.2

155.2

600

528.6

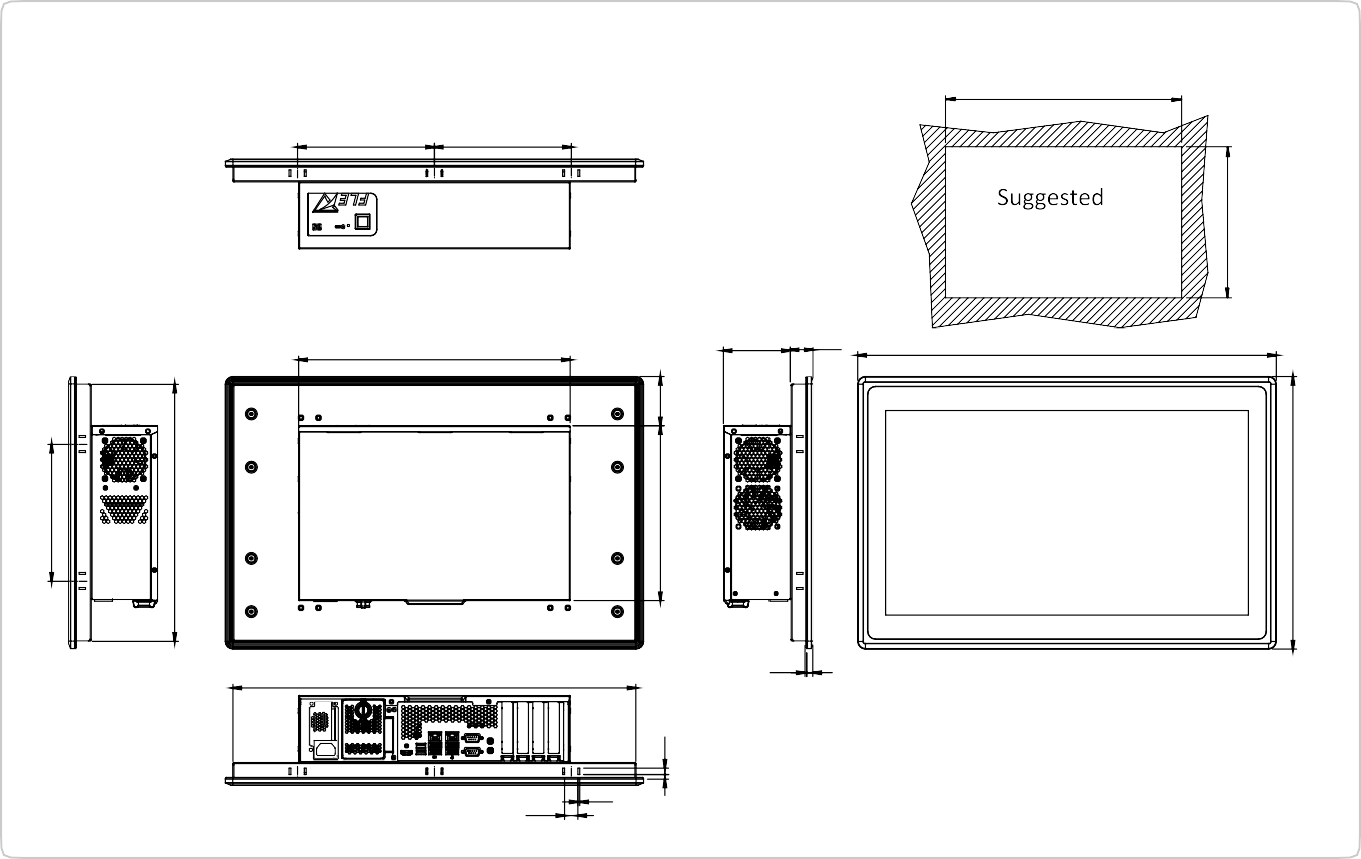
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Suggested Cut Out Size Scale 1:2

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

574.6

357



17.50

2.50

530

2.30 8

550.40

88 29.80

357

Cut out Size

180

180

533

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

180

338

230

64.70

6

8.50

6.3

298

382

356.6

166.6

37

341

358.40

359.6



Configurable Systems