

FLEX-BX200AI

2U AI Modular PC with 8th/9th Generation LGA 1151
Intel® Core™ i and Xeon® Processor



Feature

- 2U AI Modular PC with 8th/9th Generation LGA 1151 Intel® Core™/ Xeon® processor with Intel® Q370/C246 chipset and DDR4 memory
- Four hot-swappable and accessible HDD drive bays, support RAID 0/1/5/10
- Support PCIe 3.0 by 4 and PCIe 3.0 by 8 slots
- M.2 2280 PCIe Gen 3.0 x4 NVMe™ SSD support
- Dual independent display with high resolution support
- Rich high-speed I/O interfaces on one side for easy installation
- Pre-installed and Pre-validated Ubuntu Operating System with pre-installed SDK's and Tools
- Support for optional Mustang-V100-MX8 PCIe Accelerator Card for offloading AI/DL workloads

Specifications

Model		FLEX-BX200AI Series
System	CPU	Intel® Xeon® E-2278GEL 2.0GHz (Up to 3.9GHz, 8 Core, TDP 35W) Intel® 9th Generation Core™ i7-9700TE 1.8GHz (Up to 3.8GHz, 8 Core, TDP 35W) Intel® 9th Generation Core™ i5-9500TE 2.2GHz (Up to 3.6GHz, 6 Core, TDP 35W) Intel® 8th Generation Core™ i5-8500 3.0GHz (Up to 4.1GHz, 6-core, TDP 65W)
	Chipset	Intel® C240 Series Chipsets C246 (Coffee Lake) 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	LAN1: Intel® I219LM with Intel® AMT 11.0 supported LAN2: Intel® I210 PCIe controller
Storage		4 x accessible 2.5" HDD/SSD SATA 6 Gb/s bay (with RAID 0/1/5/10 support) with LED indicator 1 x NGFF M.2(2280) M Key socket (support NVMe SSD)
Wireless Communication	WLAN	802.11ac ,2.4/5Ghz (by M.2 2230)
	Bluetooth	Bluetooth V5.1
	WWAN and GNSS	M.2 3042 LTE (optional)
I/O Ports and Switches		2 x HDMI output 2 x GbE LAN (1x i219 support vPro, 1x i210) 6 x USB 3.2 Gen1 Type-A 2 x RS-232 DB-9 type 1 x Mic in 1 x Line out 1 x AC Inlet 4 x SMA Power button with power LED (power on=Blue) AT/ATX mode switch Reset button
TPM		TPM 2.0
Expansion Slots		2 x PCIe 3.0x8 1 x PCIe 3.0x4 1 x M.2 B-Key (2242 for 3G, LTE with SIM slot, support PCIe 3.0x1, USB 3.2 Gen1) 1 x M.2 M-Key (2280) socket (support PCIe 3.0x4)
Thermal Solution		System Fan x3, CPU Cooler x1
Power supply		AC input ATX power supply - 350W Power supply - Input: 90VAC~264VAC, 50/60Hz - Output (max.): 3.3V@14A, 5V@16A, 12V@29A, -12V@0.3A
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
	Net Weight	4 Kg
Environmental	Operating Temperature	-10°C ~ 50°C
	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

Part No.	Description
FLEX-BX200AI-XER/32G-R10	2U AI Modular BOX PC, 9th Gen Intel® Xeon® E-2278GEL 2.0GHz (Up to 3.9GHz, 8-core, TDP 35W), 32GB DDR4, 2.5" 1TB HDD , TPM 2.0, 350W PSU, R10
FLEX-BX200AI-XER/32G/V-R10	2U AI Modular BOX PC, 9th Gen Intel® Xeon® E-2278GEL 2.0GHz (Up to 3.9GHz, 8-core, TDP 35W), 32GB DDR4, 2.5" 1TB HDD , TPM 2.0, 350W PSU, with Mustang-V100-MX8, R10
FLEX-BX200AI-i7R/16G-R10	2U AI Modular BOX PC, 9th Gen Intel® Core™ i7-9700TE 1.8GHz (Up to 3.8GHz, 8-core, TDP 35W), 16GB DDR4, 2.5" 1TB HDD , TPM 2.0, 350W PSU, R10
FLEX-BX200AI-i7R/16G/V-R10	2U AI Modular BOX PC, 9th Gen Intel® Core™ i7-9700TE 1.8GHz (Up to 3.8GHz, 8-core, TDP 35W), 16GB DDR4, 2.5" 1TB HDD , TPM 2.0, 350W PSU, with Mustang-V100-MX8, R10
FLEX-BX200AI-i5R/8G-R10	2U AI Modular BOX PC, 9th Gen Intel® Core™ i5-9500TE 2.2GHz (Up to 3.6GHz, 6-core, TDP 35W), 8GB DDR4, 2.5" 1TB HDD , TPM 2.0, 350W PSU, R10
FLEX-BX200AI-i5R/8G/V-R10	2U AI Modular BOX PC, 9th Gen Intel® Core™ i5-9500TE 2.2GHz (Up to 3.6GHz, 6-core, TDP 35W), 8GB DDR4, 2.5" 1TB HDD , TPM 2.0, 350W PSU, with Mustang-V100-MX8, R10
FLEX-BX200AI-i5/8G-R10	2U AI Modular BOX PC, 8th Gen Intel® Core™ i5-8500 3.0GHz (Up to 4.1GHz, 6-core, TDP 65W), 8GB DDR4, 2.5" 1TB HDD , TPM 2.0, 350W PSU, R10
FLEX-BX200AI-i5/8G/V-R10	2U AI Modular BOX PC, 8th Gen Intel® Core™ i5-8500 3.0GHz (Up to 4.1GHz, 6-core, TDP 65W), 8GB DDR4, 2.5" 1TB HDD , TPM 2.0, 350W PSU, with Mustang-V100-MX8, R10

Packing List

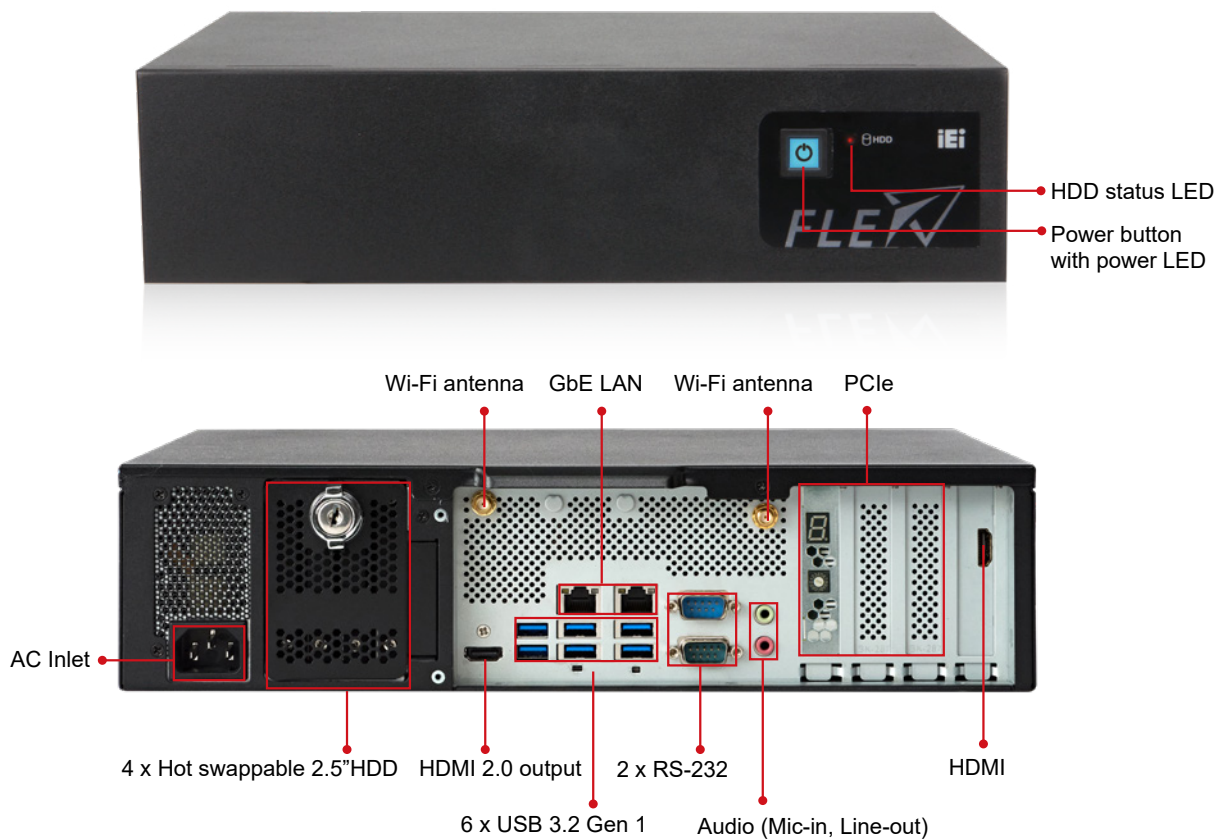
Item	Q'ty	Remark
32702-000200-100-RS	1	European power cord, 1830mm
41020-0521C2-00-RS	2	wall mount kit, black
44035-040062-RS	4	M4*6 oval head screw for wall mount kit, black
	1	Key for HDD cover

Options

Part No.	Description
FLEX-BXRK-R10	Rack mount kit

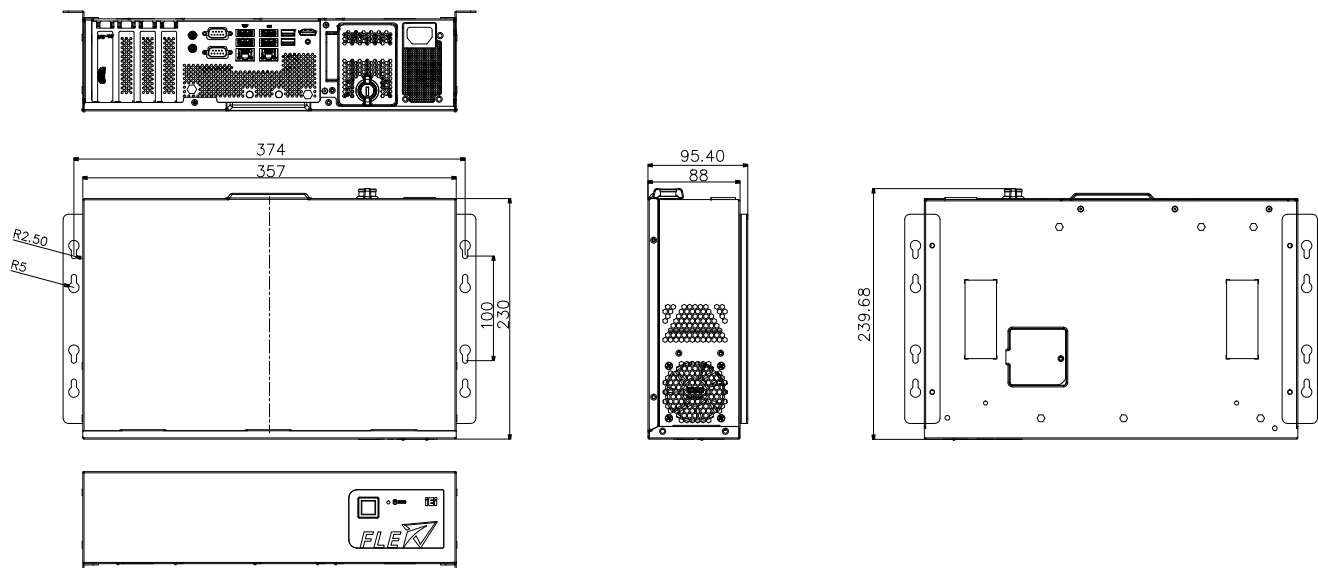


I/O Interface



FLEX-BX200AI

Dimensions (Unit: mm)



Configurable Systems

Panel Kit Modules



Specifications

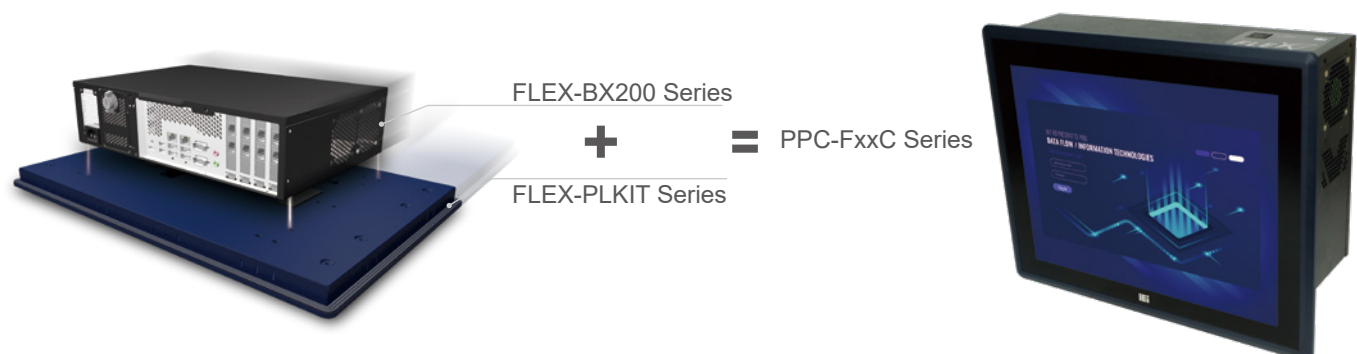
Model		FLEX-PLKIT-F15	FLEX-PLKIT-F17	FLEX-PLKIT-FW15	FLEX-PLKIT-FW19	FLEX-PLKIT-FW22	FLEX-PLKIT-FW24
TFT LCD	LCD Size	15"	17"	15.6"	18.5"	21.5"	23.8"
	Max. Resolution	1024x768	1280x1024	1366x768	1366x768	1920x1080	1920x1080
	Brightness (cd/m ²)	450	350	400	400	250	250
	Contrast Ratio	800:1	1000:1	500:1	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/m ² 1024 x 768 FLEX modular resistive touch window/LCD kit, R10
FLEX-PLKIT-F17/PC-R10	17" 350cd/m ² 1280 x 1024 FLEX modular PCAP touch window/LCD kit, R10
FLEX-PLKIT-FW15/PC-R10	15.6" 400cd/m ² 1366 x 768 FLEX modular PCAP touch window/LCD kit, R10
FLEX-PLKIT-FW19/PC-R10	18.5" 400cd/m ² 1366 x 768 FLEX modular PCAP touch window/LCD kit, R10
FLEX-PLKIT-FW22/PC-R10	21.5" 250cd/m ² 1920 x 1080 FLEX modular PCAP touch window/LCD kit, R10
FLEX-PLKIT-FW24/PC-R10	23.8" 250cd/m ² 1920 x 1080 FLEX modular PCAP touch window/LCD kit, R10

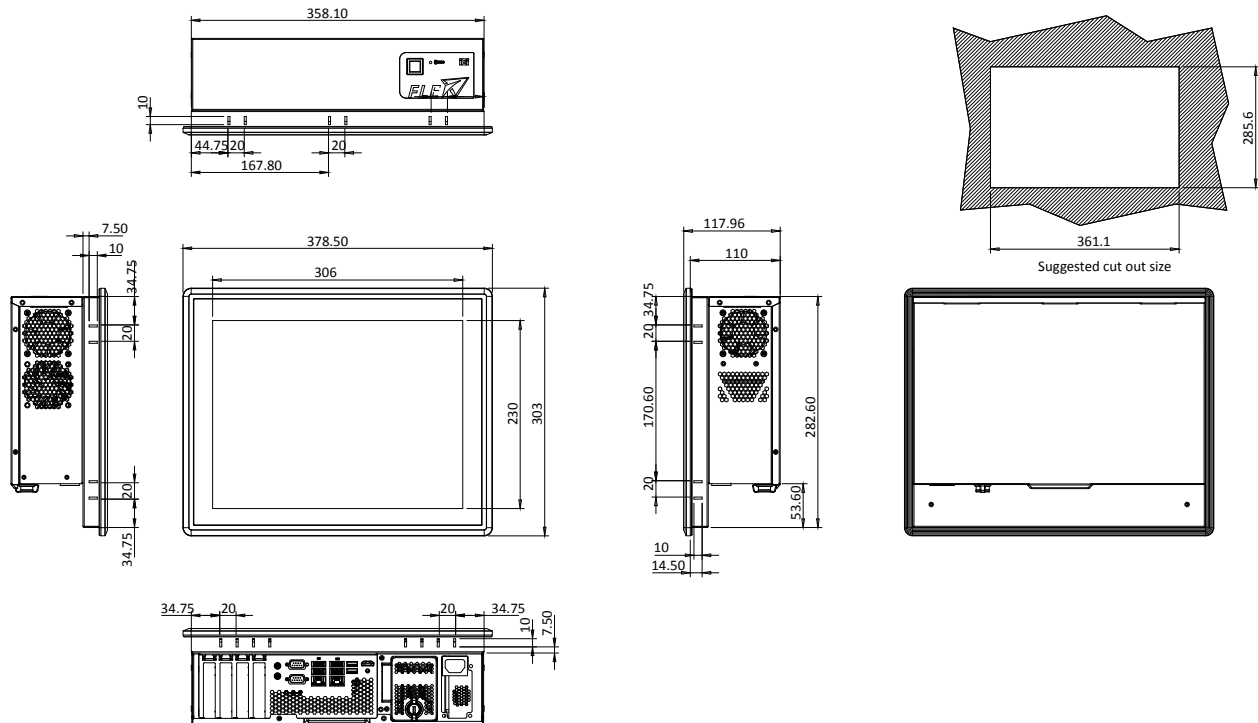
Options

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.

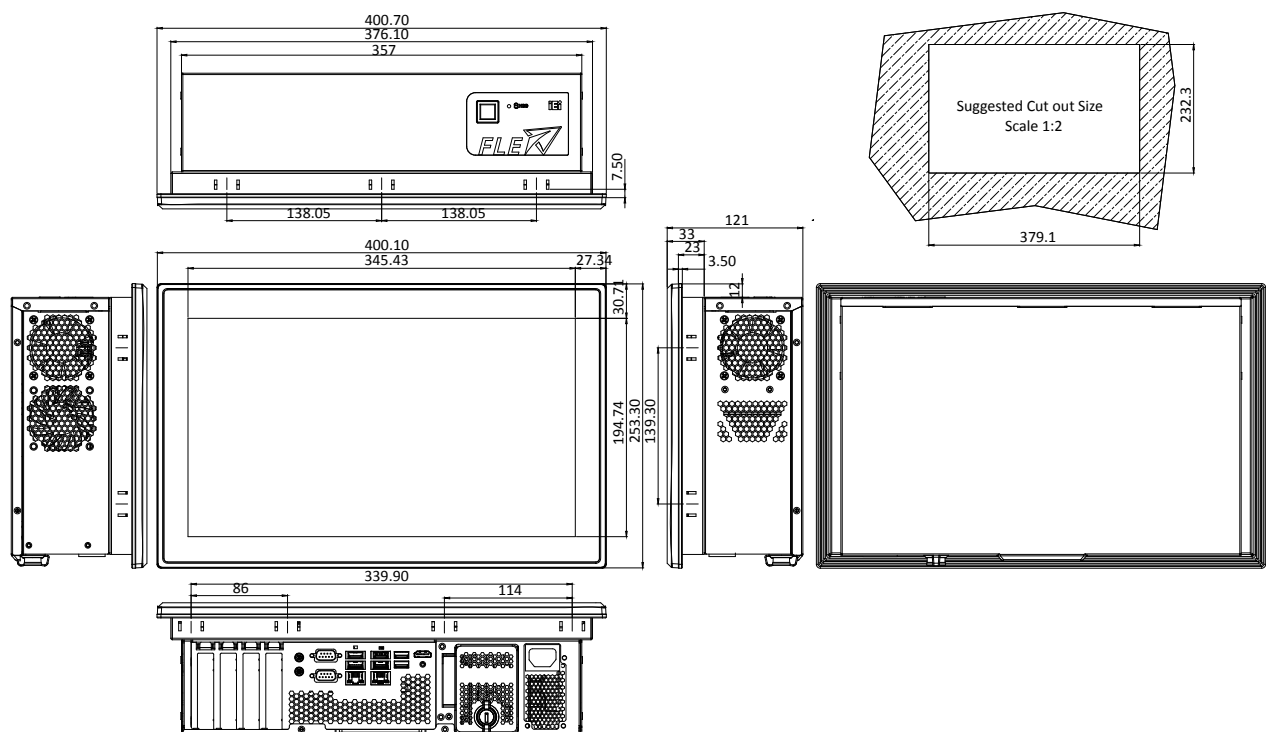


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FLEX-PLKIT-F15 Dimensions (Unit: mm)

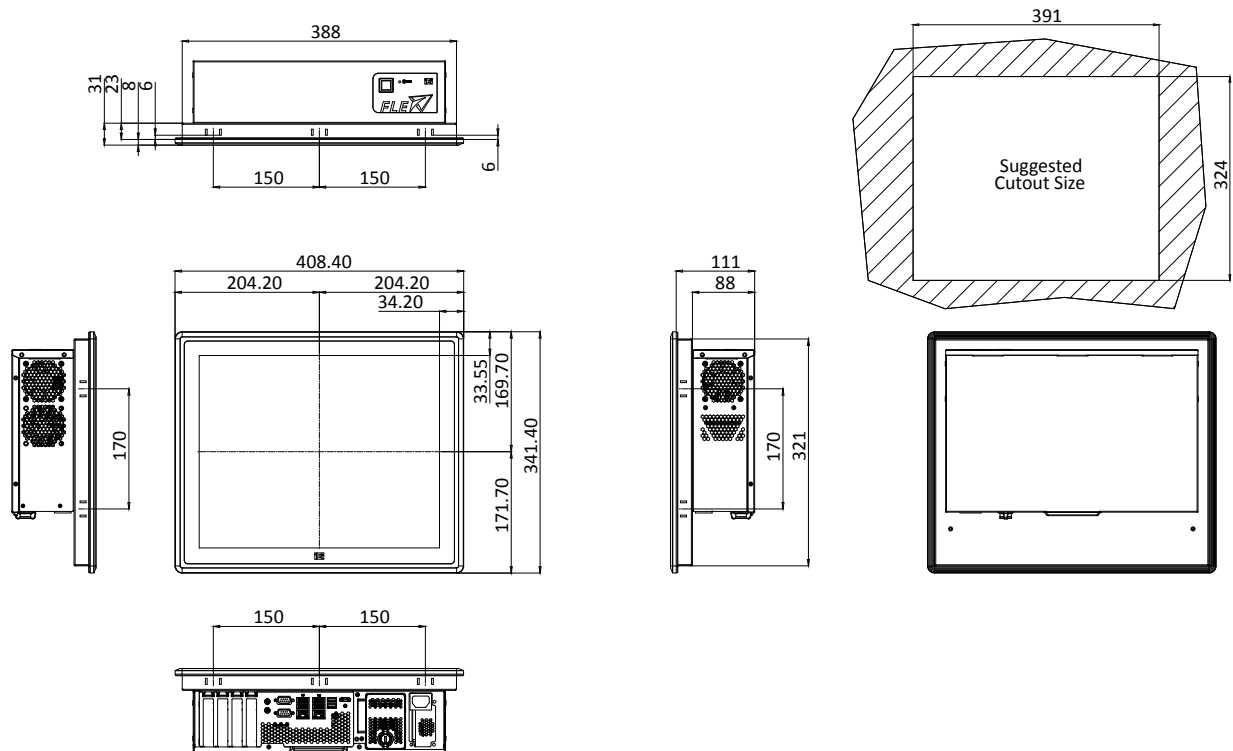


FLEX-PLKIT-FW15 Dimensions (Unit: mm)

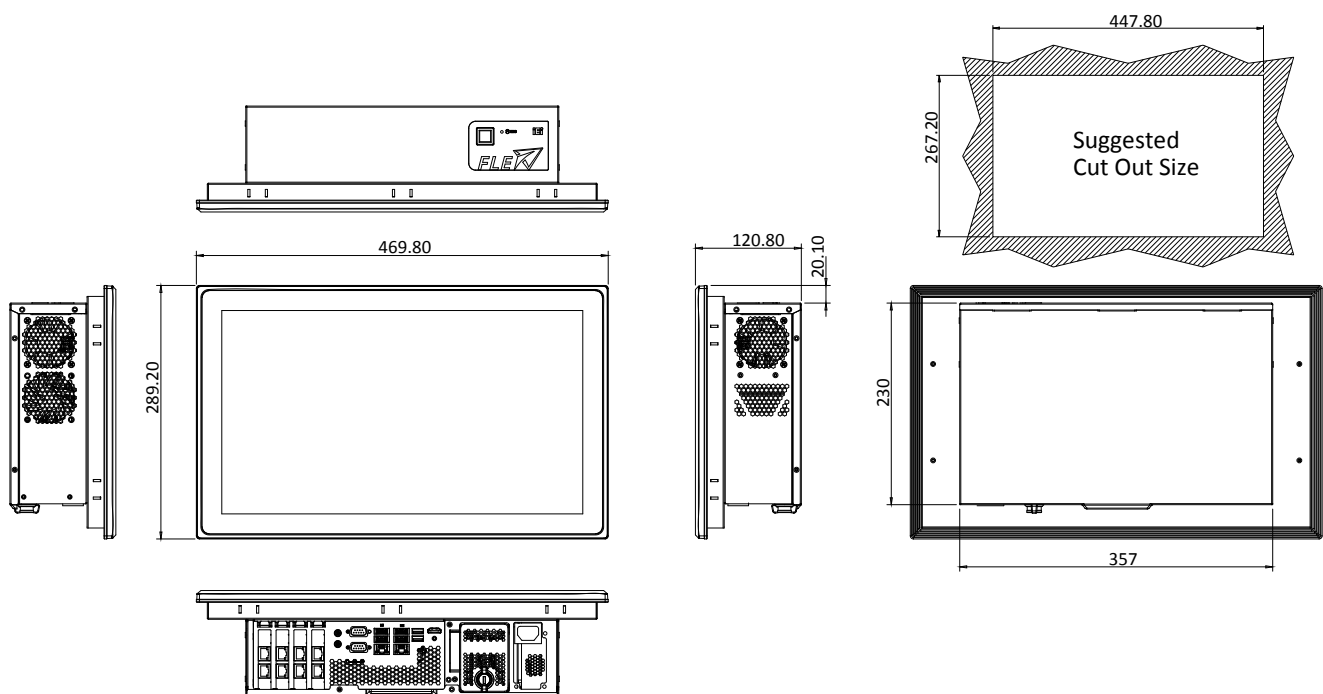


Configurable Systems

FLEX-PLKIT-F17 Dimensions (Unit: mm)

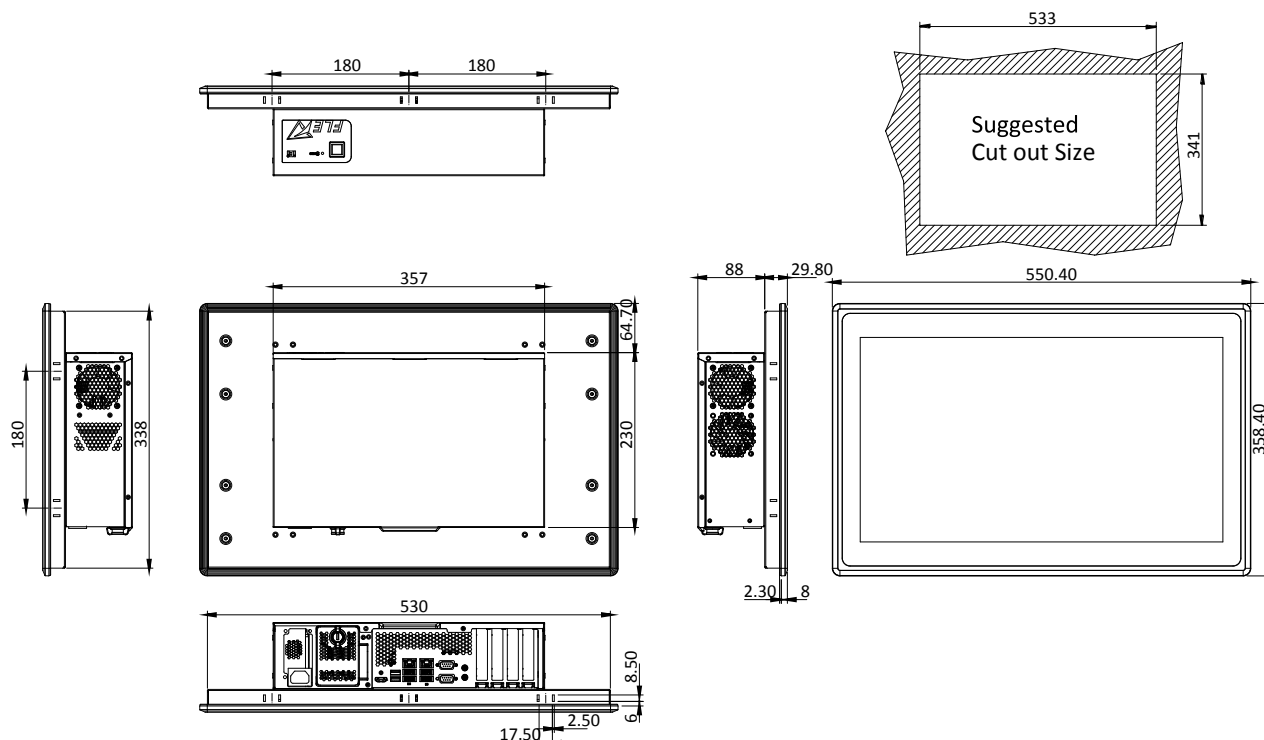


FLEX-PLKIT-F19 Dimensions (Unit: mm)



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FLEX-PLKIT-FW22 Dimensions (Unit: mm)



FLEX-PLKIT-FW24 Dimensions (Unit: mm)

