

PPC-F Bay Trail Fanless Series

5.7"/8"/10.4" Fanless Intel® Bay Trail Solution

Features

- 5.7", 8" and 10.4" fanless industrial panel PC
- 2.0 GHz Intel® Celeron® J1900 quad-core processor or 1.58 GHz Intel® Celeron® N2807 dual-core processor
- Low power consumption DDR3L memory supported
- IP 65 compliant front panel
- 9 V~30 V wide DC input
- mSATA SSD supported
- Dual GbE for backup
- -10°C~50°C extended operating temperature



Specifications

Model		PPC-F06B-BT	PPC-F08B-BT	PPC-F10B-BT
LCD	LCD Display	5.7" (4:3)	8" (4:3)	10.4"
	Max. Resolution	640 (W) x 480 (H)	800 (W) x 600 (H)	800 (W) x 600 (H)
	Brightness (cd/m²)	550	500	400
	Contrast Ratio	800:1	500:1	700:1
	LCD Color	262K	16.2M	16.2M
	Pixel Pitch (mm)	0.18 (H) x 0.18 (V)	0.2025 (H) x 0.0675 (V)	0.264 (H) x 0.264 (V)
	Viewing Angle (H-V)	160° / 140°	140° / 120°	160° / 140°
	Backlight MTBF (hrs)	50000	50000	30000
Motherboard	CPU	Intel® Celeron® N2807 dual-core processor, 1.58GHz	Intel® Celeron® J1900 quad-core on-board SoC, 2GHz	
	RAM	2GB DDR3L 1600MHz on-board RAM (system max. 4GB, by MOQ=300pcs)	1 x 204-pin DDR3L SO-DIMM slots (max. 8GB)	
Touch	Touchscreen & Controller	4-wire resistive type flat touch window, PenMount DMC9000	5-wire resistive type flat touchscreen, PenMount DMC9000	
	Surface Hardness	3H	3H	3H
Input Interfaces	I/O Ports & Switches	2 x RJ-45 LAN port 1 x RS-232 COM port (DB-9 connector) (RI/5V/12V) 1 x RS-422/485 2 x USB 3.0 2 x USB 2.0 1 x 9 V~30 V DC lockable DC jack (2-pin) 1 x Audio port (line-out) 1 x Power switch 1 x Reset button 1 x AT/ATX switch	1 x RS-232 COM port (RJ-45 connector) 1 x RS-232/422/485 COM port (DB-9 connector) (RI/5V/12V) 2 x USB 3.0 2 x GbE LAN 1 x Power switch 1 x Reset button 1 x AT/ATX switch 1 x Audio port (line-out) 1 x 9 V~30 V lockable power jack	1 x RS-232 COM port (RJ-45 connector) 1 x RS-232/422/485 COM port (DB9 connector) (RI/5V/12V) 2 x USB 2.0 2 x USB 3.0 2 x GbE LAN 1 x Power switch 1 x Reset button 1 x AT/ATX switch 1 x Audio port (line-out) 1 x 9 V~30 V lockable power jack
		Expansion		
Wireless LAN		802.11 b/g/n (optional)		
Storage	SSD	mSATA	mSATA	mSATA
	HDD	N/A	N/A	1 x 2.5" HDD bay
Physical	Construction Material	Aluminum front bezel		
	Mounting	Stand, panel mount, rack mount, VESA 75x75	Stand, panel mount, rack mount, VESA 75x75	Stand, panel mount, rack mount, VESA 75x75/100x100
	Enclosure Color	Black C		
	Dimensions (mm)	136.4 x 178.5 x 56.3	182.2 x 222.2 x 44	232.4 x 285.2 x 44
	Net Weight	0.89 kg	1.17 kg	1.77 kg
	Cut-out Dimensions (mm)	157.5 x 115.4	207 x 154	267.2 x 214.4
Environment	Operating Temperature (with air flow)	-10°C~50°C (14°F~122°F)		
	Storage Temperature	-20°C~60°C (-4°F~140°F)		
	Humidity	10% to 95% (non-condensing)		
	IP Level	IP 65 compliant front panel		
	Safety and EMC	CE & FCC Class A certified		
Power	Power Adapter	P/N: 63040-010036-121-RS 36W Power Adapter Input: 90 - 264V AC, 50/60Hz Output: 12V DC		
	Power Requirement	9 ~ 30V DC		
	Power Consumption	24W	28W	34W

Ordering Information

Part Number	Description
PPC-F06B-BT-N1/2G/R-R10	5.7" 450 cd/m ² VGA panel PC with Intel® Celeron® processor N2807, TDP 4.3W, 2GB on-board DDR3L RAM, black color, 9-30V DC input, resistive touch window, R10
PPC-F08B-BT-J1/2G/R-R10	8" 500 cd/m ² SVGA panel PC with Intel® Celeron® processor J1900, TDP 10W, 2GB DDR3L RAM, black color, 9-30V DC input, resistive touch window, R10
PPC-F10B-BT-J1/2G/R-R10	10.4" 400 cd/m ² SVGA panel PC with Intel® Celeron® processor J1900, TDP 10W, 2GB DDR3L RAM, black color, 9-30V DC input, resistive touch window, R10

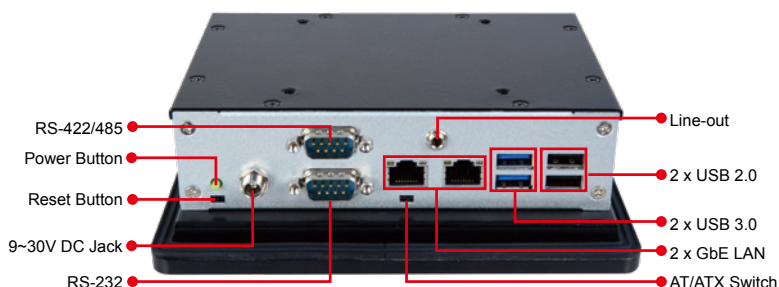
Options

Item	PPC-F06B	PPC-F08B	PPC-F10B
Arm	ARM-11-RS	ARM-11-RS	ARM-11-RS
Stand	STAND-100-RS STAND-B08	STAND-100-RS STAND-B08 STAND-C12-R10	STAND-100-RS STAND-B08 STAND-C12-R10
Wall Mount Kit	AFLWK-12	AFLWK-12	AFLWK-12
Panel Mount Kit	FPK-07-R10	FPK-07-R10	FPK-09-R10
Wi-Fi Kit	EMB-WIFI-KIT01-R20		

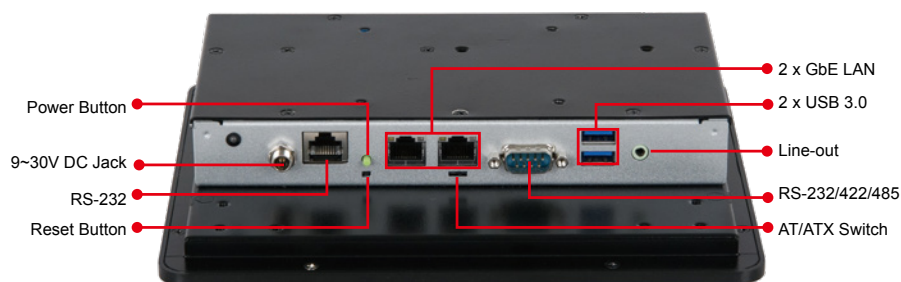
Packing List

Item	Q'ty	Remark
PPC-FxxB-BTi Panel PC	1	
User Manual & Driver CD	1	
One Key Recovery CD	1	
Touch Pen	1	Resistive type models only P/N: 43125-0002C0-00-RS
Power Cord	1	Part numbers vary by regions
Screw Pack	1	Including necessary screws
Power Adapter	1	9V~30V DC P/N: 63040-010036-121-RS

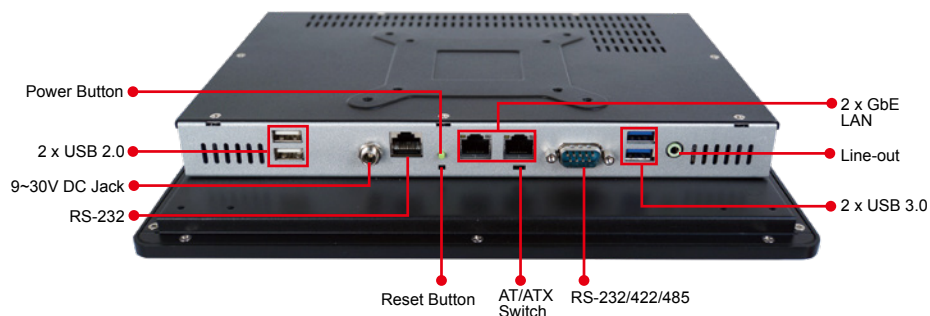
PPC-F06B Fully Integrated I/O

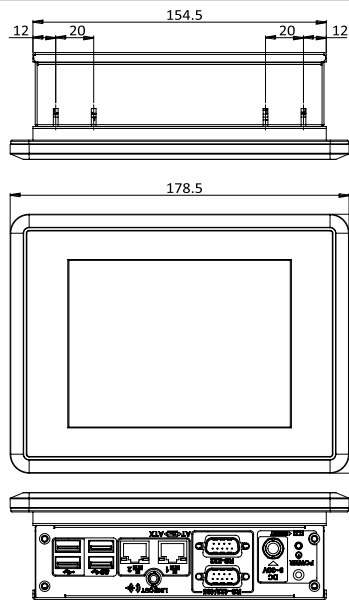


PPC-F08B Fully Integrated I/O

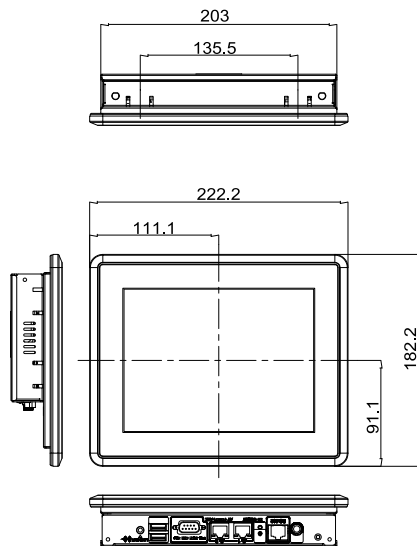
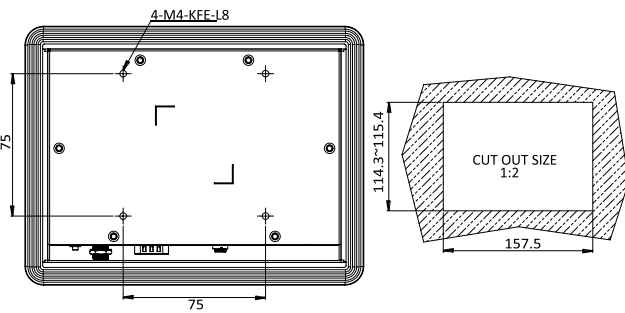


PPC-F10B Fully Integrated I/O

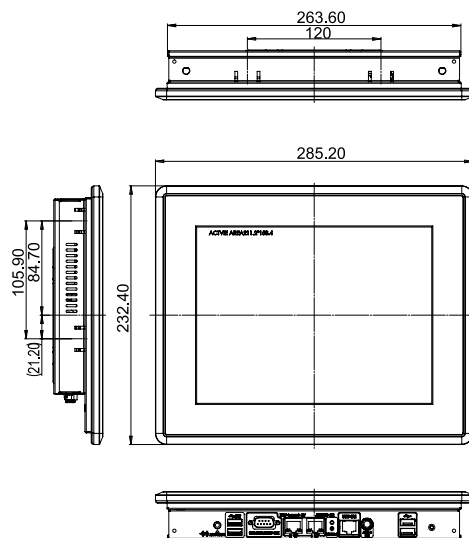
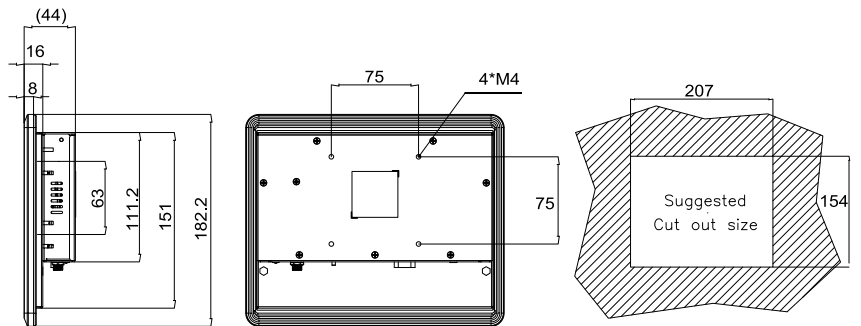




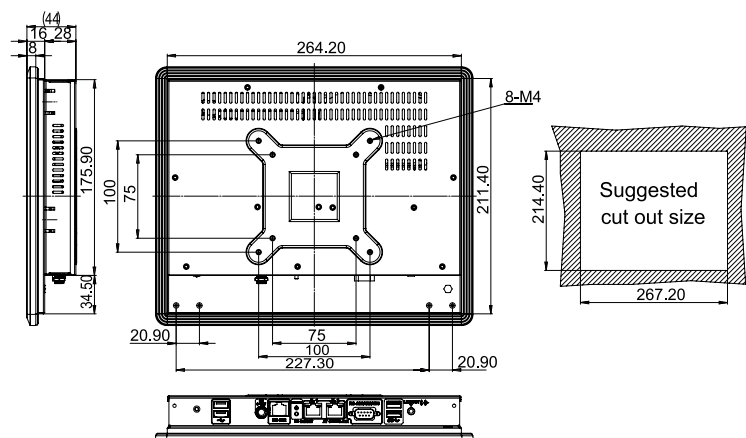
PPC-F06B-BT
Dimensions (Unit: mm)



PPC-F08B-BT
Dimensions (Unit: mm)



PPC-F10B-BT
Dimensions (Unit: mm)



PPC-F Bay Trail Fanless Series

12"/15"/17"/19" Fanless Intel® Bay Trail Solution

Features

- Support IEI iRIS-2400 remote intelligent solution
- Intel® Celeron® J1900 quad-core SoC
- Robust IP65 aluminum front bezel
- Aesthetic ultra-thin bezel for seamless panel mount installation
- Projected capacitive multi-touch and resistive single touch options
- Dual full-size PCIe Mini card expansion
- 9V~36V DC wide range DC input



Specifications

Model		PPC-F12B-BT	PPC-F15B-BT	PPC-F17B-BT	PPC-F19B-BT
LCD	LCD Display	12.1" (4:3)	15" (4:3)	17" (5:4)	19" (5:4)
	Max. Resolution	1024 (W) x 768 (H)	1024 (W) x 768 (H)	1280 (W) x 1024 (H)	1280 (W) x 1024 (H)
	Brightness (cd/m²)	600	450	350	350
	Contrast Ratio	700 : 1	800 : 1	800 : 1	1000 : 1
	LCD Color	16.2M	16.2M	16.7M	16.7M
	Pixel Pitch (mm)	0.24 x 0.24	0.297 x 0.297	0.26 x 0.26	0.294 x 0.294
	Viewing Angle (H-V)	160° / 140°	160° / 150°	170° / 160°	170° / 160°
	Backlight MTBF (hrs)	50000	70000	50000	50000
Motherboard	CPU	Intel® Celeron® processor J1900 (2M cache, up to 2.42 GHz)			
	RAM	2 x 204-pin DDR3L SO-DIMM slot (max. 8GB), pre-installed with 2GB			
Touch	Touchscreen & Controller	5-wire resistive single touch window, 3H/Penmount DMC9000 (Anti-glare Surface) 10-point Projected capacitive touch window, 6H/EETI EXC3188 (Anti-UV, Anti-glare Surface)			
Input Interfaces	I/O Ports & Switches	2 x RJ-45 LAN port 2 x USB 3.0 2 x USB 2.0 1 x HDMI 2 x RS-232 1 x RS-232/422/485 1 x VGA 1 x 9 V~36 V DC jack (4-pin) 1 x 9 V~36 V DC terminal block 1 x Line-out (PPC-F15B & PPC-F17B & PPC-F19B only) 1 x Power switch			
	Expansion	1 x Full-size PCIe Mini slot (mSATA/PCIe/USB signal) 1 x Full-size/half-size PCIe Mini slot (PCIe/USB signal)			
Wireless LAN		802.11 b/g/n (optional)			
Drive Bay		1 x 2.5" HDD/SSD drive bay			
Remote Management Solution		iRIS-2400, QTS-Gateway			
Physical	Construction Material	Aluminum front panel and sheet metal rear cover			
	Mounting	Panel mount, rack mount, VESA 100x100			
	Enclosure Color	Black C			
	Dimensions (mm) (W x L x D)	262.2 x 322.2 x 47.2	303 x 378.5 x 46.2	341.4 x 408.4 x 51.8	372.4 x 447.4 x 52.87
	Weight (Net)	3.2 kg	4.1 kg	5 kg	6.5 kg
	Cutout Dimensions (mm)	244.8 x 304.8	285.6 x 361	323 x 390	355 x 430
Environment	Operating Temperature (with air flow)	-10°C~50°C (14°F~122°F)			
	Storage Temperature	-20°C~60°C (-4°F~140°F)			
	Humidity	10% to 95% (non-condensing)			
	IP Level	IP 65 compliant front panel			
	Safety and EMC	CE & FCC Class A certified			
Power	Power Adapter	P/N: 63040-010060-110-RS 60W Power Adapter Input: 90 - 264V AC, 50/60Hz Output: 12V DC			
	Power Requirement	9 V~36 V DC			
	Power Consumption	40W	41W	42W	33W

Ordering Information

Part Number	Description
PPC-F12B-BTi-J1/2G/PC-R12	12.1" 600 cd/m ² XGA Panel PC with Intel® Celeron® Processor J1900, TDP 10W, 2GB RAM*1, support iRIS-2400, black color, 9-36V DC input, projected capacitive touch window with AG coating, R12
PPC-F12B-BTi-J1/2G/R-R12	12.1" 600 cd/m ² XGA Panel PC with Intel® Celeron® Processor J1900, TDP 10W, 2GB RAM*1, support iRIS-2400, black color, 9-36V DC input, resistive touch window with AG coating, R12
PPC-F15B-BTi-J1/2G/PC-R22	15" 450 cd/m ² XGA Panel PC with Intel® Celeron® Processor J1900, TDP 10W, 2GB RAM*1, support iRIS-2400, black color, 9-36V DC input, projected capacitive touch with AG coating, R22
PPC-F15B-BTi-J1/2G/R-R22	15" 450 cd/m ² XGA Panel PC with Intel® Celeron® Processor J1900, TDP 10W, 2GB RAM*1, support iRIS-2400, black color, 9-36V DC input, resistive touch window with AG coating, R22
PPC-F17B-BTi-J1/2G/PC-R12	17" 350 cd/m ² SXGA Panel PC with Intel® Celeron® Processor J1900, TDP 10W, 2GB RAM*1, support iRIS-2400, black color, 9-36V DC input, projected capacitive touch window with AG coating, R12
PPC-F17B-BTi-J1/2G/R-R12	17" 350 cd/m ² SXGA Panel PC with Intel® Celeron® Processor J1900, TDP 10W, 2GB RAM*1, support iRIS-2400, black color, 9-36V DC input, resistive touch window with AG coating, R12
PPC-F19B-BTi-J1/2G/PC-R11	19" 350 cd/m ² SXGA Panel PC with Intel® Celeron® Processor J1900, TDP 10W, 2GB RAM*1, support iRIS-2400, black color, 9-36V DC input, AG projected capacitive touch window, R11
PPC-F19B-BTi-J1/2G/R-R11	19" 350 cd/m ² SXGA Panel PC with Intel® Celeron® Processor J1900, TDP 10W, 2GB RAM*1, support iRIS-2400, black color, 9-36V DC input, AG resistive touch window, R11



QTS-Gateway

Part Number	Description
PPC-F12B-BT-QGW-J1/4G/PC-R11	12" 600 cd/m ² XGA Panel PC with Intel® Celeron® Processor J1900, TDP 10W, 2GB RAM*2, black color, with QTS-Gateway, 9-36V DC input, projected capacitive touch window, R11
PPC-F15B-BT-QGW-J1/4G/PC-R11	15" 450 cd/m ² XGA Panel PC with Intel® Celeron® Processor J1900, TDP 10W, 2GB RAM*2, black color, with QTS-Gateway, 9-36V DC input, projected capacitive touch window, R11
PPC-F17B-BT-QGW-J1/4G/PC-R11	17" 350 cd/m ² SXGA Panel PC with Intel® Celeron® Processor J1900, TDP 10W, 2GB RAM*2, black color, with QTS-Gateway, 9-36V DC input, projected capacitive touch window, R11
PPC-F19B-BT-QGW-J1/4G/PC-R11	19" 350 cd/m ² SXGA Panel PC with Intel® Celeron® Processor J1900, TDP 10W, 2GB RAM*2, black color, with QTS-Gateway, 9-36V DC input, projected capacitive touch window, R11

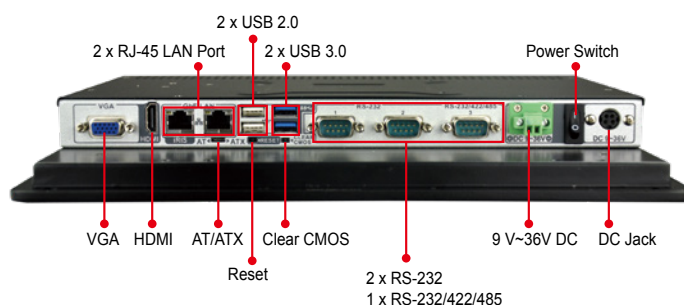
Packing List

Item	Q'ty	Remark
PPC-FxxB-BTi Panel PC	1	
User Manual & Driver CD	1	
One Key Recovery CD	1	
Touch Pen	1	Resistive type models only P/N: 43125-0002C0-00-RS
Power Cord	1	Part numbers vary by regions
Screw Pack	1	Including necessary screws
Power Adapter	1	9V~36V DC P/N: 63040-010060-110-RS

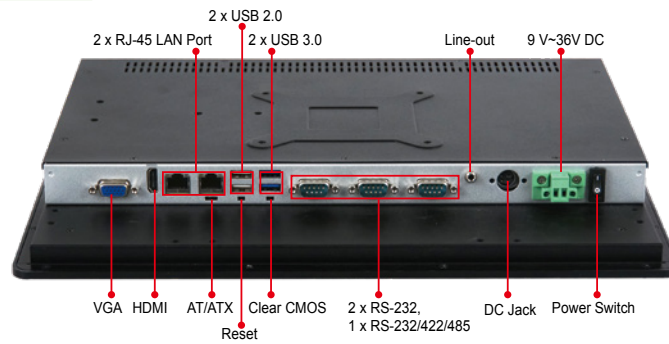
Options

Item	PPC-F12B	PPC-F15B	PPC-F17B	PPC-F19B
Arm	ARM-31-RS			
Stand	STAND-C12-R10 STAND-A12-RS	STAND-C19-R10 STAND-A19-RS	STAND-C19-R10 STAND-A19-RS	STAND-C19-R10 STAND-A19-RS
Wall Mount Kit	WK-190MS-R10			
Panel Mount Kit	FPK-09-R10	FPK-10-R10	FPK-10-R10	FPK-11-R10
Rack Mount Kit	FRK12-R10	FRK15-R10	FRK17-R10	FRK-19P-R10
Wi-Fi Kit	EMB-WIFI-KIT01-R20	EMB-WIFI-KIT11-R20	EMB-WIFI-KIT11-R20	EMB-WIFI-KIT11-R20
iRIS (IEI Remote Intelligent System) Kit	iRIS-2400-RS			

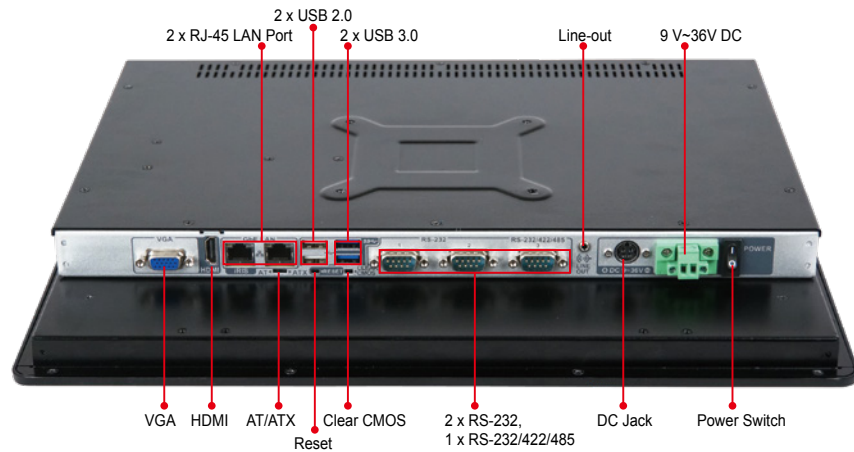
PPC-F12B Fully Integrated I/O



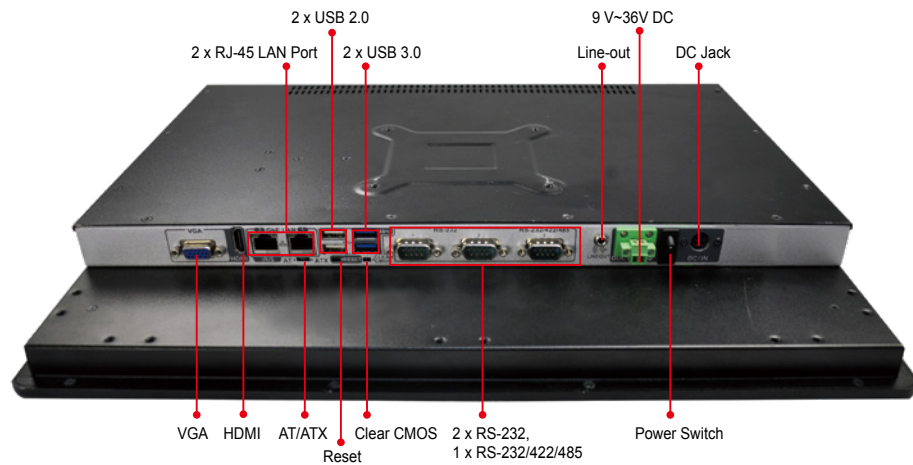
PPC-F15B
Fully Integrated I/O



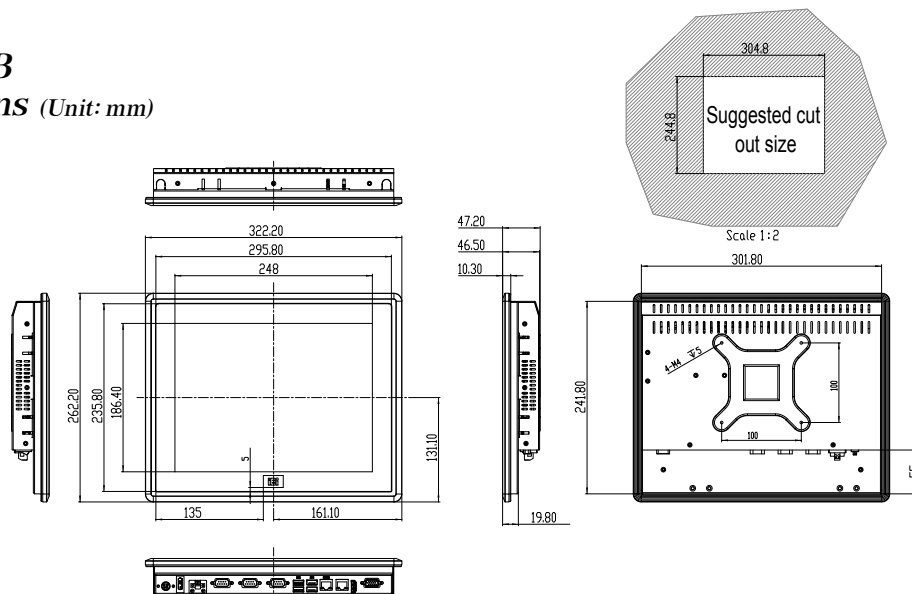
PPC-F17B
Fully Integrated I/O



PPC-F19B
Fully Integrated I/O



PPC-F12B
Dimensions (Unit: mm)



Dimensions (Unit: mm)

The drawing includes the following views and dimensions:

- Top View:** Overall width is 358.10 ± 0.30 mm. Internal width is 306 ± 0.30 mm.
- Front View:** Overall height is 303 ± 0.30 mm. Internal height is 230 ± 0.30 mm. A central cutout has a width of 100 mm and a height of 100 mm. Mounting holes are labeled B-M4-5L-A and BR-M4-1A.
- Side View (Left):** Total depth is 101.20 mm. The mounting bracket depth is 26.50 mm. The distance from the mounting surface to the center of the display is 197.90 mm. The distance from the mounting surface to the bottom edge is 282.60 ± 0.30 mm.
- Side View (Right):** Total depth is 101.20 mm. The mounting bracket depth is 26.50 mm. The distance from the mounting surface to the center of the display is 197.90 mm. The distance from the mounting surface to the bottom edge is 282.60 ± 0.30 mm.
- Bottom View:** Overall width is 358.10 ± 0.30 mm. Internal width is 306 ± 0.30 mm. Overall height is 303 ± 0.30 mm. Internal height is 230 ± 0.30 mm. A central cutout has a width of 100 mm and a height of 100 mm. Mounting holes are labeled B-M4-5L-A and BR-M4-1A.
- Isometric View:** Shows the display from a three-dimensional perspective.
- Top View (Detailed):** Shows the mounting bracket with dimensions: 20.90 mm (width of mounting holes), 152.10 mm (distance between mounting holes), 92.30 mm (width of mounting holes), 17.20 mm (height of mounting holes), 100.05 mm (height of mounting holes), 100 mm (height of mounting holes), 17.20 mm (height of mounting holes), 45.96 ± 0.30 mm (distance from mounting surface to bottom edge), and 101.20 mm (total depth).
- Bottom View (Detailed):** Shows the mounting bracket with dimensions: 20.90 mm (width of mounting holes), 152.10 mm (distance between mounting holes), 92.30 mm (width of mounting holes), 17.20 mm (height of mounting holes), 100.05 mm (height of mounting holes), 100 mm (height of mounting holes), 17.20 mm (height of mounting holes), 45.96 ± 0.30 mm (distance from mounting surface to bottom edge), and 101.20 mm (total depth).
- Isometric View (Detailed):** Shows the mounting bracket with dimensions: 20.90 mm (width of mounting holes), 152.10 mm (distance between mounting holes), 92.30 mm (width of mounting holes), 17.20 mm (height of mounting holes), 100.05 mm (height of mounting holes), 100 mm (height of mounting holes), 17.20 mm (height of mounting holes), 45.96 ± 0.30 mm (distance from mounting surface to bottom edge), and 101.20 mm (total depth).
- Top View (Suggested Cut):** Shows the suggested cut size for the display, with a width of 361 mm and a height of 285.6 mm.

Dimensions (Unit: mm)

Technical Drawing of TFC F15B Unit

The drawing includes the following views and dimensions (Unit: mm):

- Top View:** Shows a rectangular unit with a width of 427 mm and a depth of 8.50 mm. Internal dimensions of 160.45 mm are indicated for the main body.
- Front View:** Shows the unit's profile with a total width of 378.32 mm and a height of 189.16 mm. The outer frame dimensions are 447.40 mm (width) and 372.40 mm (height). The inner panel dimensions are 301.06 mm (width) and 149.53 mm (height).
- Side View:** Shows the unit's side profile with a total width of 352 mm and a height of 8.50 mm. The main body dimensions are 186.20 mm (width) and 134.25 mm (height). The bottom flange dimensions are 10.30 mm (width), 25.66 mm (height), and 52.87 mm (width).
- Rear View:** Shows the back of the unit with a central cutout for mounting. The overall dimensions are 41.48 mm (width) and 17.20 mm (height). The mounting flange dimensions are 20.90 mm (width) and 17.20 mm (height). The central cutout dimensions are 300 mm (width) and 20.90 mm (height).
- Bottom View:** Shows the unit's base with a suggested cut out size of 430 mm (width) and 355 mm (height).