

FPC 15"~22"W Series

15"/17"/15"W/17"W/22"W Flexible TFT Touch Panel PC

Quick Reference Guide

1st Ed – 13 November, 2008

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Part No. E2017FPC0A0R

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1. Getting Started

1.1 Safety Precautions

Warning!



Always completely disconnect the power cord from your chassis whenever you work with the hardware. Do not make connections while the power is on. Sensitive electronic components can be damaged by sudden power surges. Only experienced electronics personnel should open the PC chassis.

Caution!



Always ground yourself to remove any static charge before touching the CPU card. Modern electronic devices are very sensitive to static electric charges. As a safety precaution, use a grounding wrist strap at all times. Place all electronic components in a static-dissipative surface or static-shielded bag when they are not in the chassis.

1.2 Packing List

- 1 x FPC 15"/17"/15"W/17"W/22"W Series Panel PC
- 1 x Quick Reference Guide
- 1 x CD/DVD-ROM contains the followings:
 - User's Manual (this manual in PDF file)
 - Ethernet driver and utilities
 - VGA drivers and utilities
 - Audio drivers and utilities
 - WiFi drivers and utilities
 - Touch controller drivers and utilities
- 1 x packing set includes the followings
 - 1 x power cord
 - 1 x cable set for IDE, SATA, COM
 - 1 x antenna (for optional WiFi)



If any of the above items is damaged or missing, contact your retailer.

1.3 System Specifications

Panel 			
	FPC-1501	FPC-1502	FPC-1503
LCD size	15.0", 4:3		
Display type	XGA TFT		
Resolution	1024x768		
Color	16 Million		
Pixel pitch	0.297mm(H) x 0.297mm(V)		
Luminance	250 cd/m²		
Contrast ratio	550		
Viewing angle	45(U), 55(D), 60(L), 50(R)		
Response time	8 ms		
Backlight	2 x CCFL		
Touch Type	5 Wires resistive		
Touch Light Transmission	80%		
Touch Interface	RS-232		
System 			
Board	EMX-945GM3	EMX-965GME	EMX-910GMLE-C9E
CPU	Supports Intel μFC-PGA Core™Duo/Core™Solo/ Core™2 Duo with 65nm process technology	Supports Intel® socket P Core™Duo/Core™Solo/ Core™2 Duo with 65nm process technology	Onboard Intel uFC-BGA 479 Celeron M 900MHz w/512K 2nd Level Cache with 90nm process technology
Cooling method	Active CPU cooler	Active CPU cooler	Passive CPU heatsink
BIOS	Award 1 MB Flash BIOS	AMI 16 MB SPI ROM	Award 512 KB Flash BIOS
System Chipset	Intel®82945GME GMCH / ICH7-M	Intel® GME965 GMCH / ICH8-M	Intel 82910GMLE GMCH / ICH6-M
I/O Chip	Winbond W83627DHG-A		
Memory	Two 240-pin DIMM socket supports up to 4GB DDR2 533/667	Two 200-pin SODIMM socket supports up to 4GB DDR2 533/667	Two 240-pin DIMM socket supports up to 2 GB DDR2 400
SSD	One CompactFlash Type I/II socket		
HDD Drive Bay	1 x 3.5" SATA or 1 x 2.5" SATA		
Expansion Slot	1 x PCI slot		

Rear Panel I/O 			
Serial Port	3 x RS-232		
Ethernet	1 x Realtek GigLAN port	2 x Realtek GigaLAN ports	1 x Realtek GigaLAN port
WIFI	Optional USB WiFi 802.11 b/g (occupy one USB port)		
VGA	1 x DB-15		
DVI	1 x DVI		
Audio	Line out, Line in, Mic in		
USB	6 x USB 2.0 (optional extra 2 USB ports by request)		
Speaker	2W X 2		
Mouse & KB	1 x PS/2 Keyboard connector		
Mechanical & Environmental 			
System Fan	1 x System Fan		
Color	Front panel Silver		
	Rear panel Black		
Power input	100-240 VAC (150 W)		
Operating temperature	0℃ to 40℃.		
Storage temperature	-10℃ to 50℃.		
Relative humidity	10% to 95% @ 40℃ , non-condensing		
Mounting	Wall/Stand/VESA 75 mm X 75 mm and 100 mm X 100 mm		
Dimensions	382mm X 280 mm X 89.15 mm		
Weight	6.8 kgs / 15 lbs		

FPC 15"~22"W Series

Panel 			
	FPC-1701	FPC-1702	FPC-1703
LCD size	17.0", 4:3		
Display type	SXGA TFT		
Resolution	1028 x 1024		
Color	16 Million		
Pixel pitch	0.264mm(H) x 0.264mm(V)		
Luminance	300 cd/m²		
Contrast ratio	400		
Viewing angle	60(U), 55(D), 60(L), 50(R)		
Response time	16 ms		
Backlight	4 x CCFL		
Touch Type	5 Wires resistive		
Touch Light Transmission	80%		
Touch Interface	RS-232		
System 			
Board	EMX-945GM3	EMX-965GME	EMX-910GMLE-C9E
CPU	Supports Intel µFC-PGA Core™Duo/Core™Solo/ Core™2 Duo with 65nm process technology	Supports Intel® socket P Core™Duo/Core™Solo/ Core™2 Duo with 65nm process technology	Onboard Intel uFC-BGA 479 Celeron M 900MHz w/512K 2nd Level Cache with 90nm process technology
Cooling method	Active CPU cooler	Active CPU cooler	Passive CPU heatsink
BIOS	Award 1 MB Flash BIOS	AMI 16 MB SPI ROM	Award 512 KB Flash BIOS
System Chipset	Intel®82945GME GMCH / ICH7-M	Intel® GME965 GMCH / ICH8-M	Intel 82910GMLE GMCH / ICH6-M
I/O Chip	Winbond W83627DHG-A		
Memory	Two 240-pin DIMM socket supports up to 4GB DDR2 533/667	Two 200-pin SODIMM socket supports up to 4GB DDR2 533/667	Two 240-pin DIMM socket supports up to 2 GB DDR2 400
SSD	One CompactFlash Type I/II socket		
HDD Drive Bay	1 x 3.5" SATA or 1 x 2.5" SATA		
Expansion Slot	1 x PCI slot		

Rear Panel I/O			
Serial Port	3 x RS-232		
Ethernet	1 x Realtek GigLAN port	2 x Realtek GigaLAN ports	1 x Realtek GigaLAN port
WIFI	Optional USB WiFi 802.11 b/g (occupy one USB port)		
VGA	1 x DB-15		
DVI	1 x DVI		
Audio	Line out, Line in, Mic in		
USB	6 x USB 2.0 (optional extra 2 USB ports by request)		
Speaker	2W X 2		
Mouse & KB	1 x PS/2 Keyboard connector		
Mechanical & Environmental			
System Fan	1 x System Fan		
Color	Front panel Silver		
	Rear panel Black		
Power input	100-240 VAC (150 W)		
Operating temperature	0℃ to 40℃.		
Storage temperature	-10℃ to 50℃.		
Relative humidity	10% to 95% @ 40℃ , non-condensing		
Mounting	Wall/Stand/VESA 75 mm X 75 mm and 100 mm X 100 mm		
Dimensions	402 mm X 322 mm X 88 mm		
Weight	8.2 kgs /18 lbs		

FPC 15"~22"W Series

Panel 			
	FPC-15W01	FPC-15W02	FPC-15W03
LCD size	15.4", 16:10		
Display type	WXGA TFT		
Resolution	1280 x 800		
Color	262144		
Pixel pitch	0.255(H) x 0.255(V)		
Luminance	500cd/m²		
Contrast ratio	800		
Viewing angle	40(U), 60(D), 60(L), 60(R)		
Response time	5 ms		
Backlight	2 x CCFLs		
Touch Type	5 Wires resistive		
Touch Light Transmission	80%		
Touch Interface	RS-232		
System 			
Board	EMX-945GM3	EMX-965GME	EMX-910GMLE-C9E
CPU	Supports Intel µFC-PGA Core™Duo/Core™Solo/ Core™2 Duo with 65nm process technology	Supports Intel® socket P Core™Duo/Core™Solo/ Core™2 Duo with 65nm process technology	Onboard Intel uFC-BGA 479 Celeron M 900MHz w/512K 2nd Level Cache with 90nm process technology
Cooling method	Active CPU cooler	Active CPU cooler	Passive CPU heatsink
BIOS	Award 1 MB Flash BIOS	AMI 16 MB SPI ROM	Award 512 KB Flash BIOS
System Chipset	Intel®82945GME GMCH / ICH7-M	Intel® GME965 GMCH / ICH8-M	Intel 82910GMLE GMCH / ICH6-M
I/O Chip	Winbond W83627DHG-A		
Memory	Two 240-pin DIMM socket supports up to 4GB DDR2 533/667	Two 200-pin SODIMM socket supports up to 4GB DDR2 533/667	Two 240-pin DIMM socket supports up to 2 GB DDR2 400
SSD	One CompactFlash Type I/II socket		
HDD Drive Bay	1 x 3.5" SATA or 1 x 2.5" SATA		
Expansion Slot	1 x PCI slot		

Rear Panel I/O 			
Serial Port	3 x RS-232		
Ethernet	1 x Realtek GigLAN port	2 x Realtek GigaLAN ports	1 x Realtek GigaLAN port
WIFI	Optional USB WiFi 802.11 b/g (occupy one USB port)		
VGA	1 x DB-15		
DVI	1 x DVI		
Audio	Line out, Line in, Mic in		
USB	6 x USB 2.0 (optional extra 2 USB ports by request)		
Speaker	2W X 2		
Mouse & KB	1 x PS/2 Keyboard connector		
Mechanical & Environmental 			
System Fan	1 x System Fan		
Color	Front panel Silver		
	Rear panel Black		
Power input	100-240 VAC (150 W)		
Operating temperature	0℃ to 40℃.		
Storage temperature	-10℃ to 50℃.		
Relative humidity	10% to 95% @ 40℃ , non-condensing		
Mounting	Wall/Stand/VESA 75 mm X 75 mm and 100 mm X 100 mm		
Dimensions	395mm X 260 mm X 77.2 mm		
Weight	6 kgs / 13 lbs		

FPC 15"~22"W Series

Panel 			
	FPC-17W01	FPC-17W02	FPC-17W03
LCD size	17", 16:10		
Display type	WXGA TFT		
Resolution	1440 x 900		
Color	262144		
Pixel pitch	0.255mm(H) x 0.255mm(V)		
Luminance	400cd/m²		
Contrast ratio	600		
Viewing angle	60(U), 60(D), 70(L), 70(R)		
Response time	10 ms		
Backlight	2 x CCFLs		
Touch Type	5 Wires resistive		
Touch Light Transmission	80%		
Touch Interface	RS-232		
System 			
Board	EMX-945GM3	EMX-965GME	EMX-910GMLE-C9E
CPU	Supports Intel µFC-PGA Core™Duo/Core™Solo/ Core™2 Duo with 65nm process technology	Supports Intel® socket P Core™Duo/Core™Solo/ Core™2 Duo with 65nm process technology	Onboard Intel uFC-BGA 479 Celeron M 900MHz w/512K 2nd Level Cache with 90nm process technology
Cooling method	Active CPU cooler	Active CPU cooler	Passive CPU heatsink
BIOS	Award 1 MB Flash BIOS	AMI 16 MB SPI ROM	Award 512 KB Flash BIOS
System Chipset	Intel®82945GME GMCH / ICH7-M	Intel® GME965 GMCH / ICH8-M	Intel 82910GMLE GMCH / ICH6-M
I/O Chip	Winbond W83627DHG-A		
Memory	Two 240-pin DIMM socket supports up to 4GB DDR2 533/667	Two 200-pin SODIMM socket supports up to 4GB DDR2 533/667	Two 240-pin DIMM socket supports up to 2 GB DDR2 400
SSD	One CompactFlash Type I/II socket		
HDD Drive Bay	1 x 3.5" SATA or 1 x 2.5" SATA		
Expansion Slot	1 x PCI slot		

Rear Panel I/O 			
Serial Port	3 x RS-232		
Ethernet	1 x Realtek GigLAN port	2 x Realtek GigaLAN ports	1 x Realtek GigaLAN port
WIFI	Optional USB WiFi 802.11 b/g (occupy one USB port)		
VGA	1 x DB-15		
DVI	1 x DVI		
Audio	Line out, Line in, Mic in		
USB	6 x USB 2.0 (optional extra 2 USB ports by request)		
Speaker	2W X 2		
Mouse & KB	1 x PS/2 Keyboard connector		
Mechanical & Evironmental 			
System Fan	1 x System Fan		
Color	Front panel Silver		
	Rear panel Black		
Power input	100-240 VAC (150 W)		
Operating temperature	0℃ to 40℃.		
Storage temperature	-10℃ to 50℃.		
Relative humidity	10% to 95% @ 40℃ , non-condensing		
Mounting	Wall/Stand/VESA 75 mm X 75 mm and 100 mm X 100 mm		
Dimensions	432 mm X 272 mm X 80.7 mm		
Weight	6.5 kgs / 14.5 lbs		

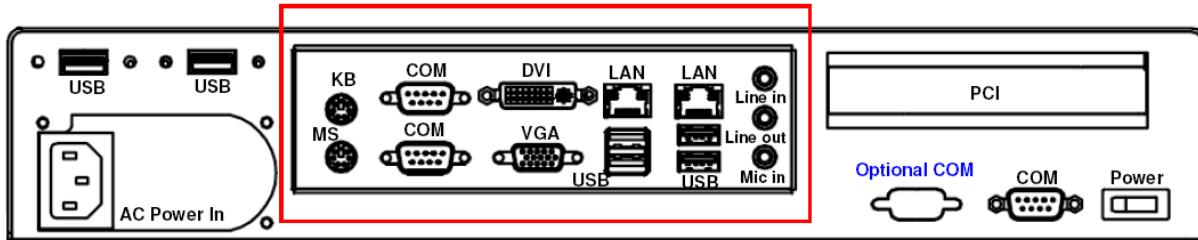
FPC 15"~22"W Series

Panel 			
	FPC-22W01	FPC-22W02	FPC-22W03
LCD size	22", 16:10		
Display type	WSXGA TFT		
Resolution	1680 x 1050		
Color	16.7 Million		
Pixel pitch	0.282mm(H) x 0.282mm(V)		
Luminance	300 cd/m²		
Contrast ratio	700		
Viewing angle	80(T), 80(D), 85(L), 85(R)		
Response time	5 ms		
Backlight	4 x CCFL		
Touch Type	5 Wires resistive		
Touch Light Transmission	80%		
Touch Interface	RS-232		
System 			
Board	EMX-945GM3	EMX-965GME	EMX-910GMLE-C9E
CPU	Supports Intel µFC-PGA Core™Duo/Core™Solo/ Core™2 Duo with 65nm process technology	Supports Intel® socket P Core™Duo/Core™Solo/ Core™2 Duo with 65nm process technology	Onboard Intel uFC-BGA 479 Celeron M 900MHz w/512K 2nd Level Cache with 90nm process technology
Cooling method	Active CPU cooler	Active CPU cooler	Passive CPU heatsink
BIOS	Award 1 MB Flash BIOS	AMI 16 MB SPI ROM	Award 512 KB Flash BIOS
System Chipset	Intel®82945GME GMCH / ICH7-M	Intel® GME965 GMCH / ICH8-M	Intel 82910GMLE GMCH / ICH6-M
I/O Chip	Winbond W83627DHG-A		
Memory	Two 240-pin DIMM socket supports up to 4GB DDR2 533/667	Two 200-pin SODIMM socket supports up to 4GB DDR2 533/667	Two 240-pin DIMM socket supports up to 2 GB DDR2 400
SSD	One CompactFlash Type I/II socket		
HDD Drive Bay	1 x 3.5" SATA or 1 x 2.5" SATA		
Expansion Slot	1 x PCI slot		

Rear Panel I/O 			
Serial Port	3 x RS-232		
Ethernet	1 x Realtek GigLAN port	2 x Realtek GigaLAN ports	1 x Realtek GigaLAN port
WIFI	Optional USB WiFi 802.11 b/g (occupy one USB port)		
VGA	1 x DB-15		
DVI	1 x DVI		
Audio	Line out, Line in, Mic in		
USB	6 x USB 2.0 (optional extra 2 USB ports by request)		
Speaker	2W X 2		
Mouse & KB	1 x PS/2 Keyboard connector		
Mechanical & Environmental 			
System Fan	1 x System Fan		
Color	Front panel Silver		
	Rear panel Black		
Power input	100-240 VAC (150 W)		
Operating temperature	0℃ to 40℃.		
Storage temperature	-10℃ to 50℃.		
Relative humidity	10% to 95% @ 40℃ , non-condensing		
Mounting	Wall/Stand/VESA 75 mm X 75 mm and 100 mm X 100 mm		
Dimensions	537 mm X 342 mm X 91.5 mm		
Weight	10.5 kgs / 23 lbs		

1.4 System Overview

1.4.1 Rear View



Connectors

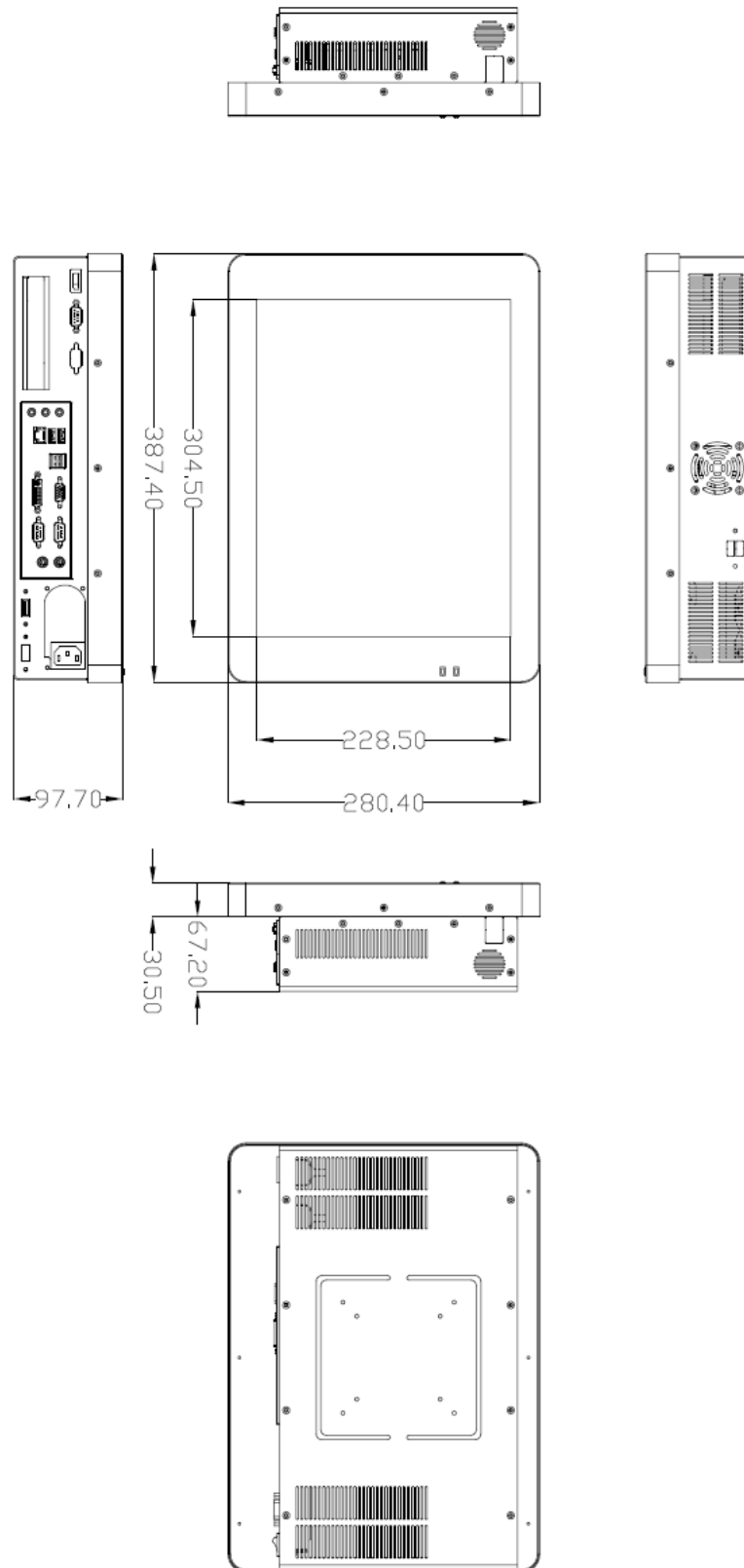
Label	Function	Note
COM	Serial port	DB-9 male connector
DVI	DVI connector	
KB	PS/2 keyboard connector	6-pin mini DIN
LAN	10/100/1000Base-Tx Ethernet connector	RJ-45
LINE IN	Line-in audio jack	
LINE OUT	Line-out audio jack	
MIC IN	Mic-in audio jack	
MS	PS/2 mouse connector	6-pin mini DIN
Power	System power switch	
USB	USB 2.0 connector	
VGA	CRT connector	DB-15 female connector



Note: Rear I/O marked in red depending on the mainboard integrated with the panel PC.

1.5 System Dimensions

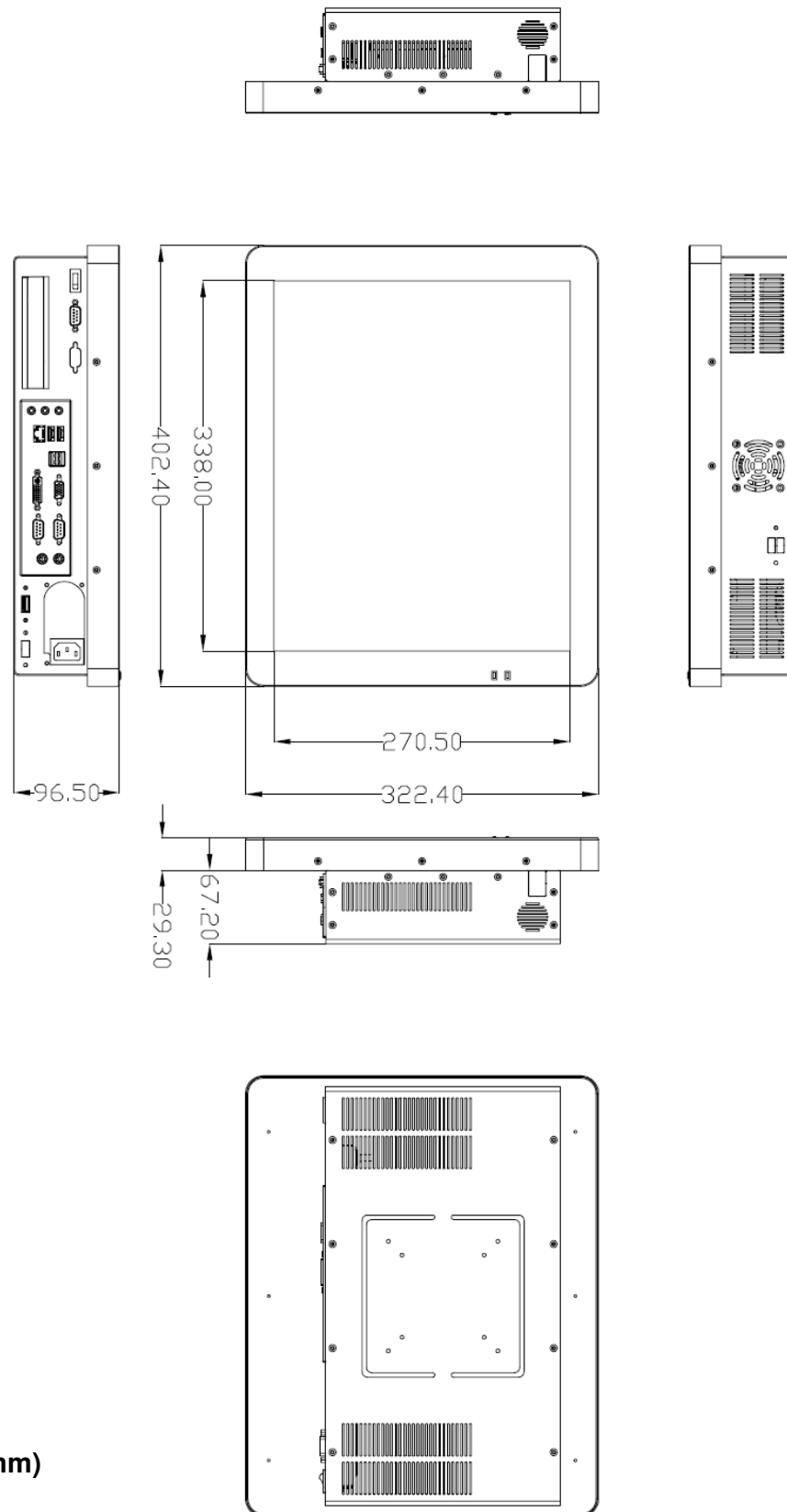
1.5.1 FPC 15" Series



(Unit: mm)

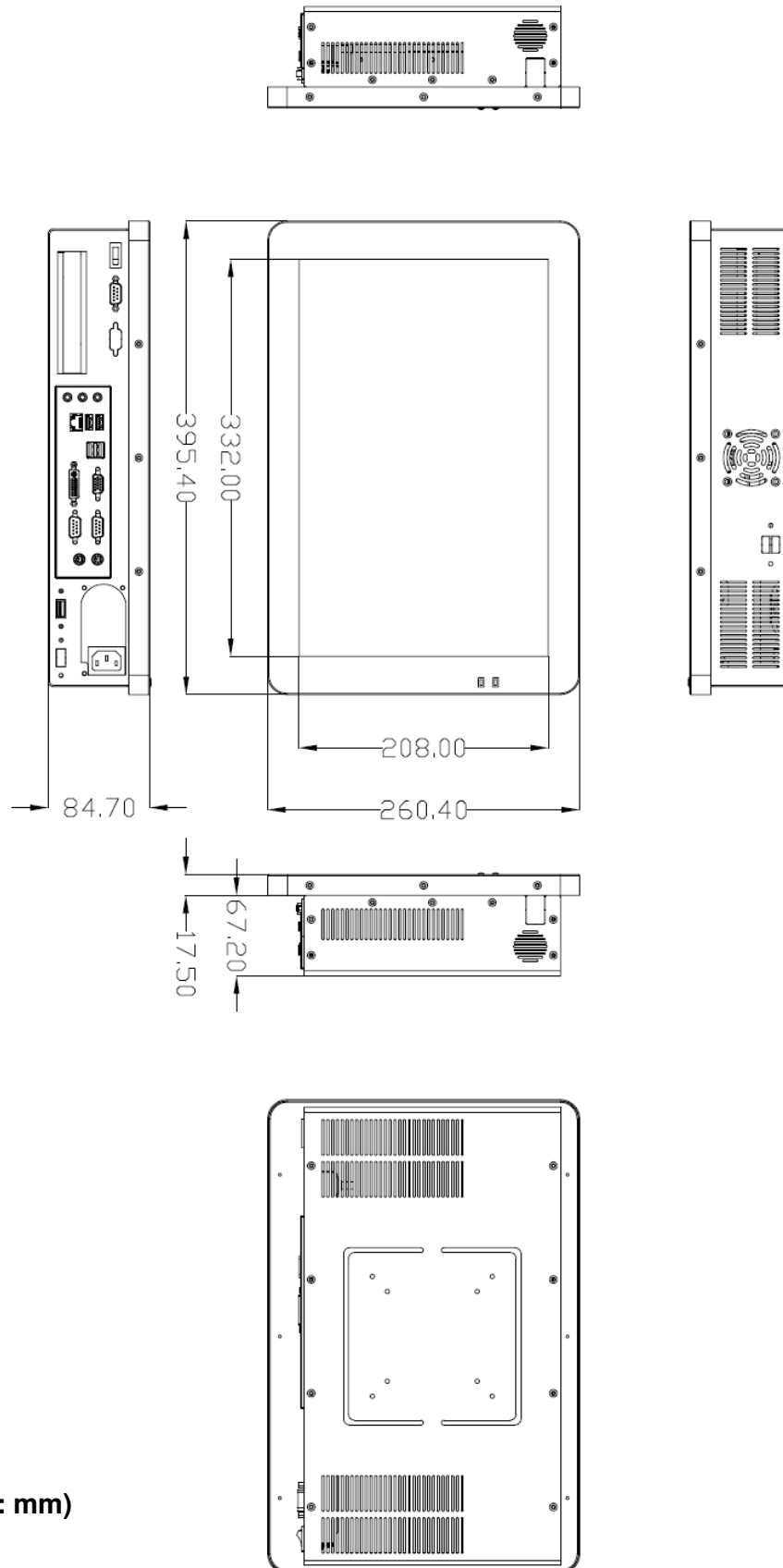
FPC 15"~22"W Series

1.5.2 FPC 17" Series



(Unit: mm)

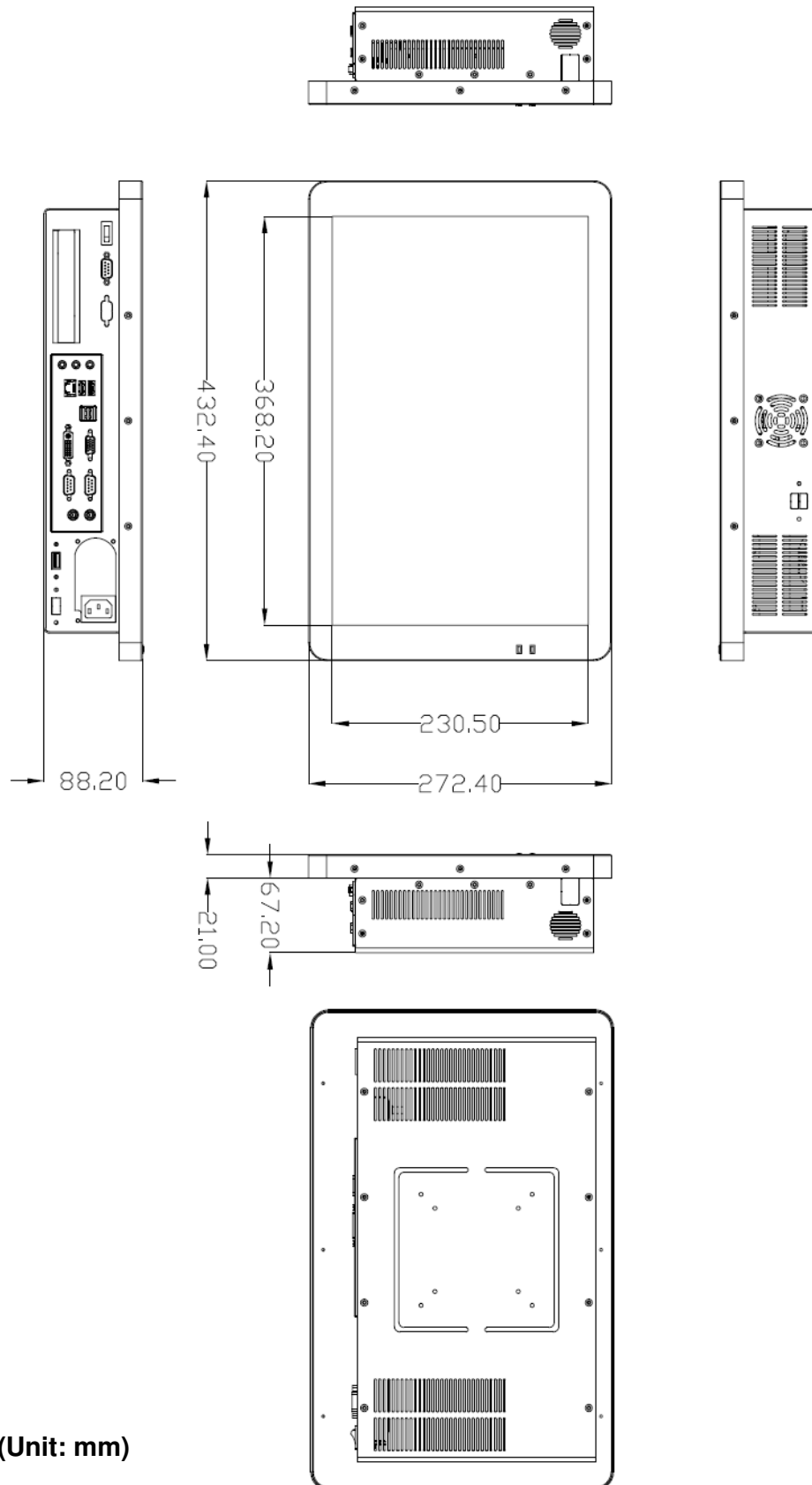
1.5.3 FPC 15.4" Widescreen Series



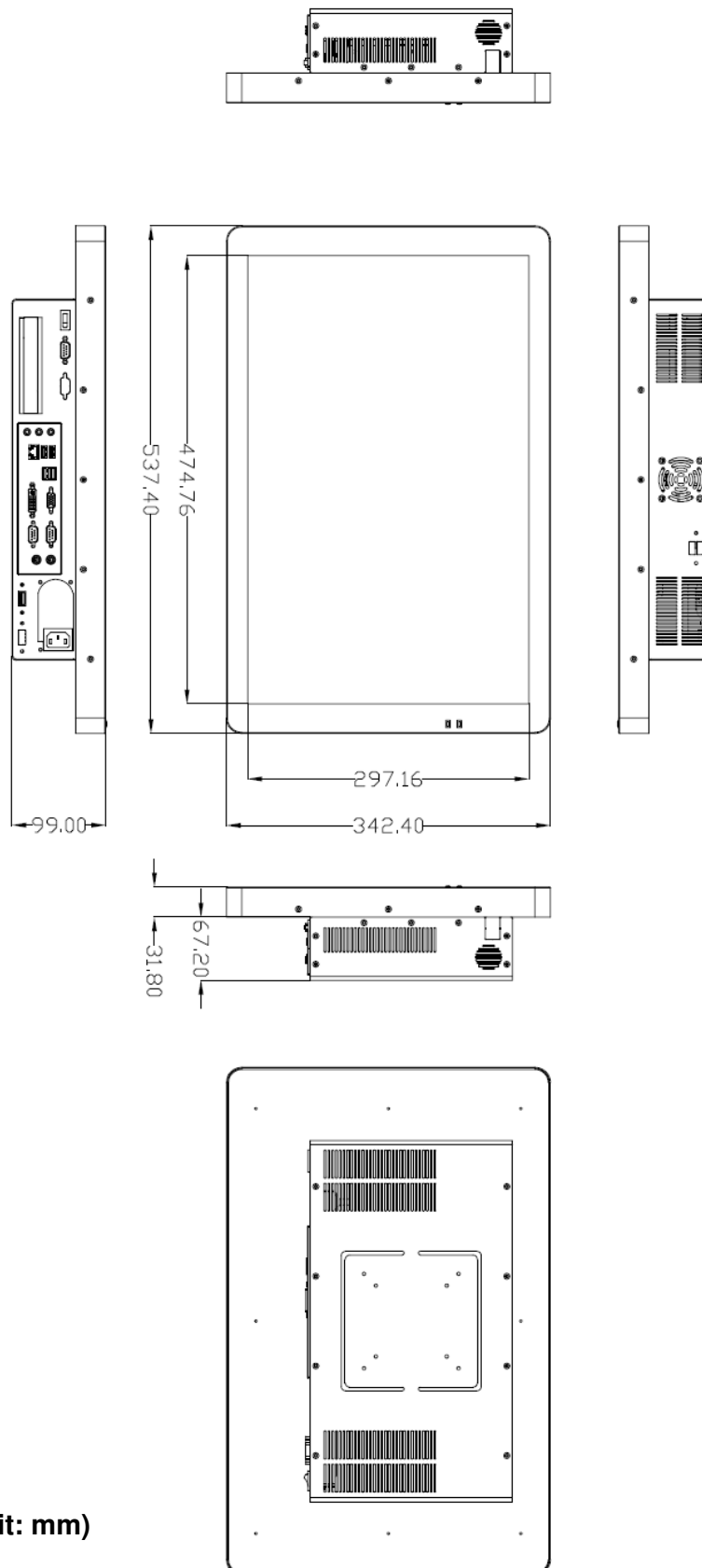
(Unit: mm)

FPC 15"~22"W Series

1.5.4 FPC 17" Widescreen Series



1.5.5 FPC 22" Widescreen Series



(Unit: mm)

2. Hardware Configuration

2.1 Jumper and Connector Setting, Driver and BIOS Installing

- Please refer to EMX-910GMLE/EMX-945GME3/EMX-965GME Quick Installation Guide or User's Manual.

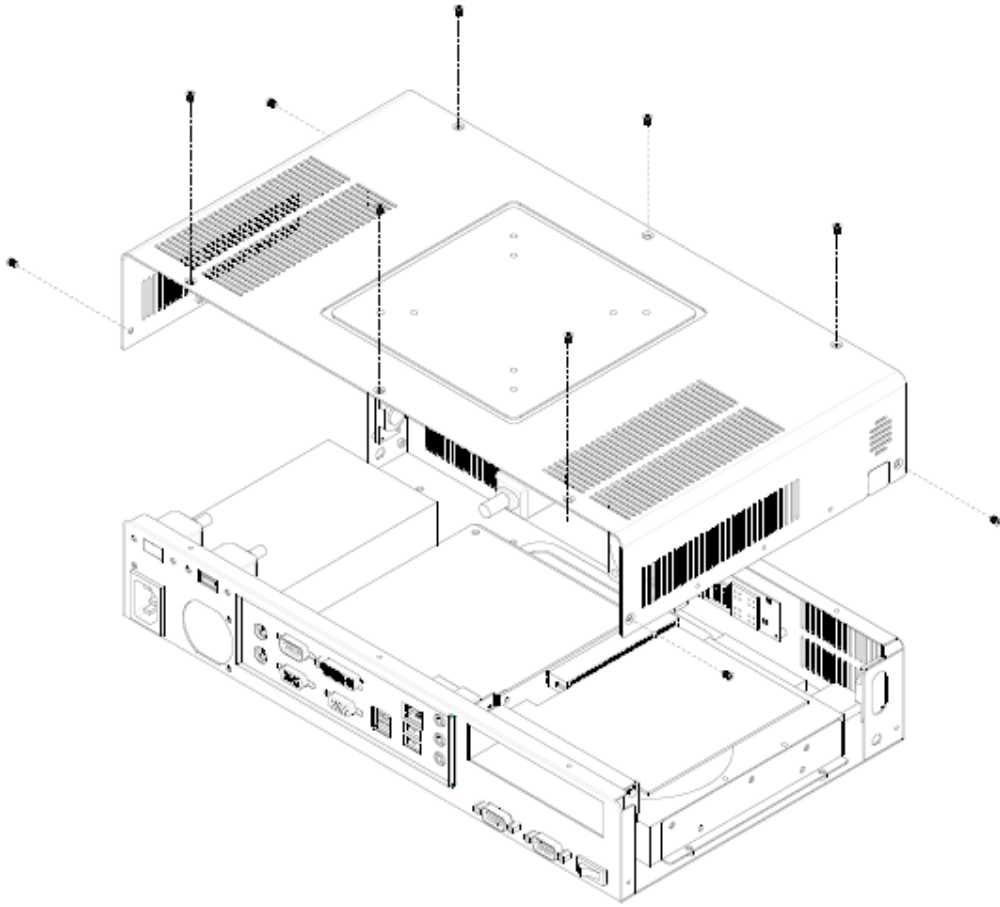


Note: If you need more information, please visit our website:

<http://www.avalue.com.tw>

2.2 Installing Hard Disk & Memory

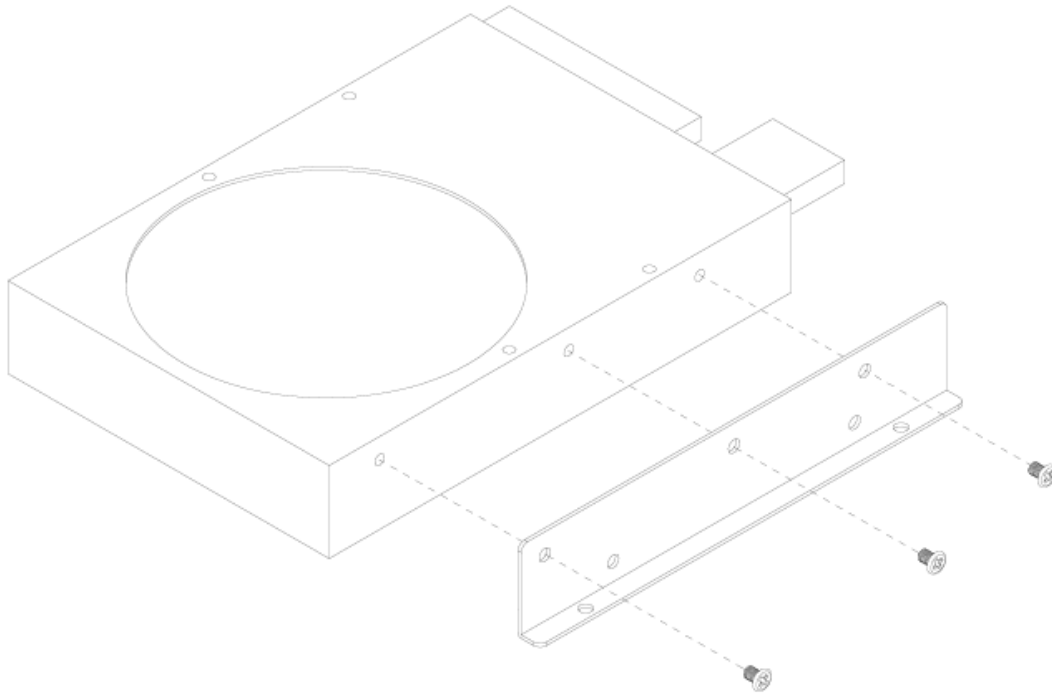
Unfasten 10 screws as indicated as below and remove the back side chassis.



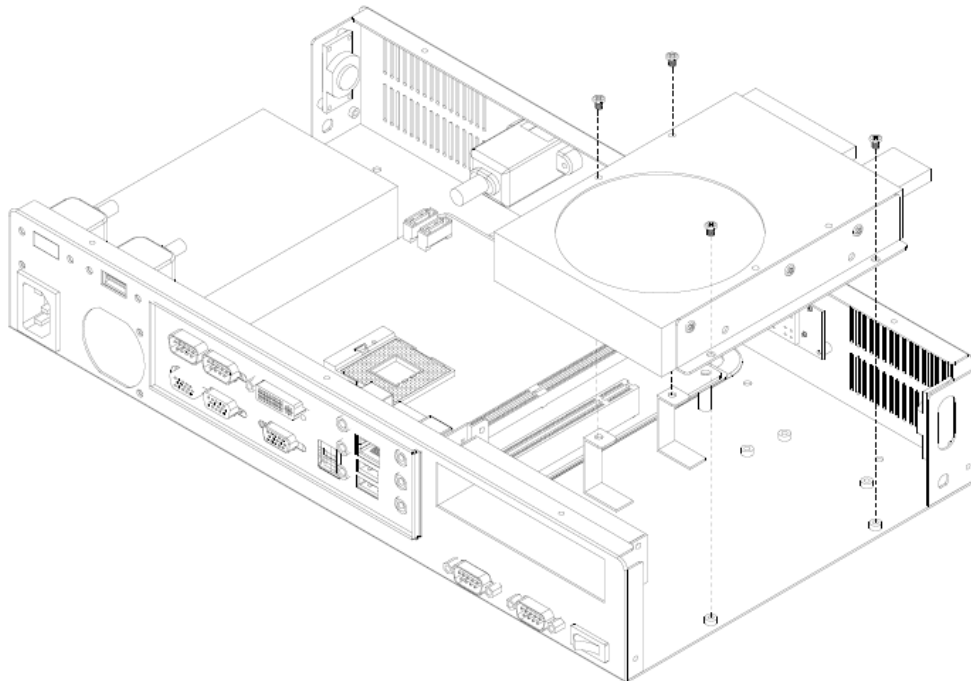
FPC 15"~22"W Series

2.2.1 Install HDD

2.2.1.1 3.5" SATA HDD

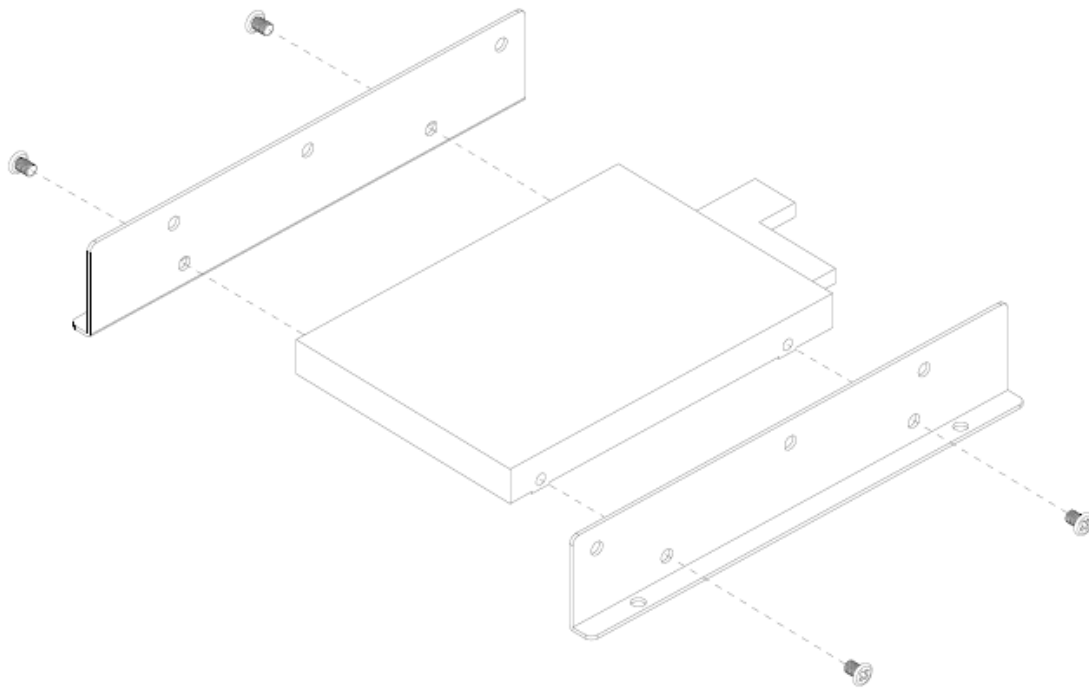


Step 1. Fasten the HDD bracket and 3.5" SATA HDD with 3 screws as above, then plug the HDD/HDD power cables.

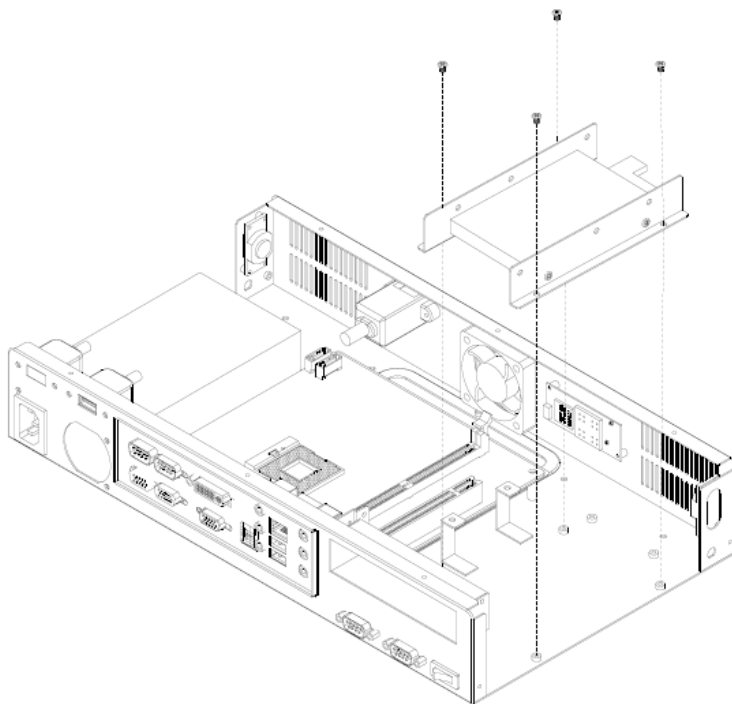


Step 2. Place the 3.5" SATA HDD assembled into the chassis and fasten 4 screws as indicated.

2.2.1.2 2.5" SATA HDD

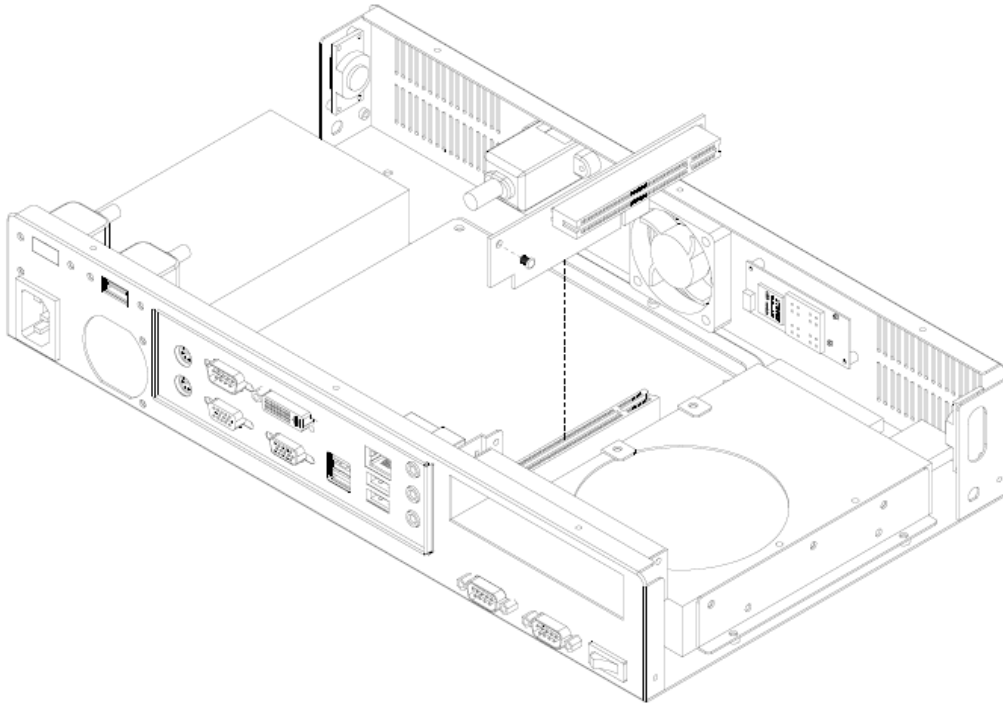


Step 1. Fasten the HDD brackets and 2.5" SATA HDD with 4 screws as above, then plug the HDD/HDD power cables.

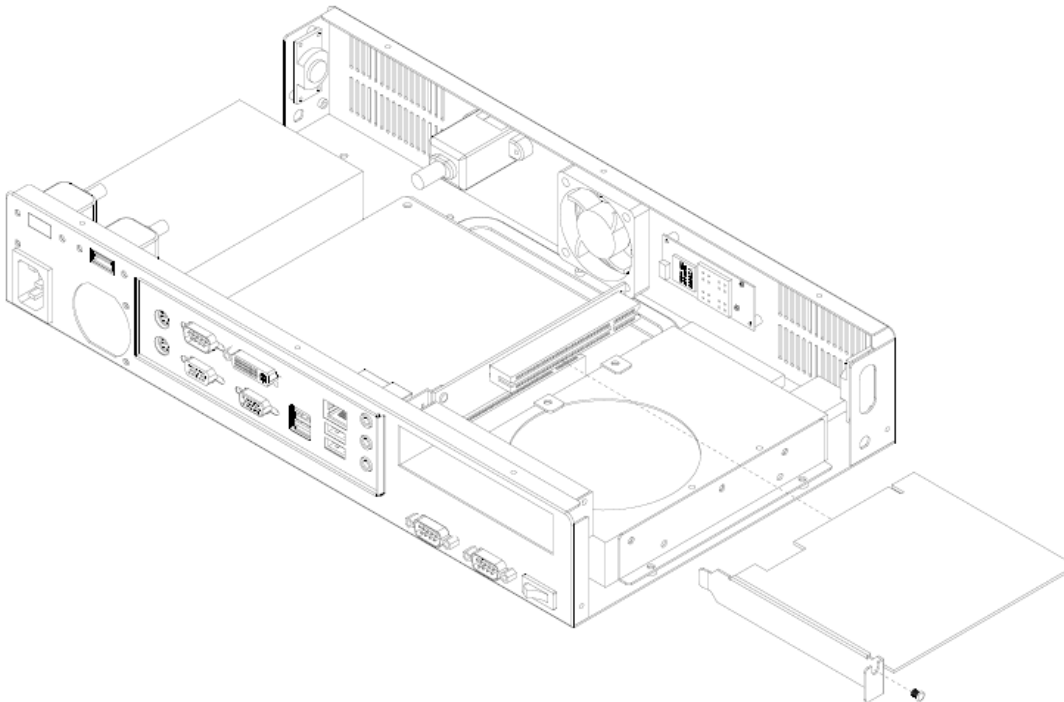


Step 2. Place the 2.5" HDD assembled into the chassis, and fasten 4 screws as indicated.

2.2.2 Install PCI Expansion Card

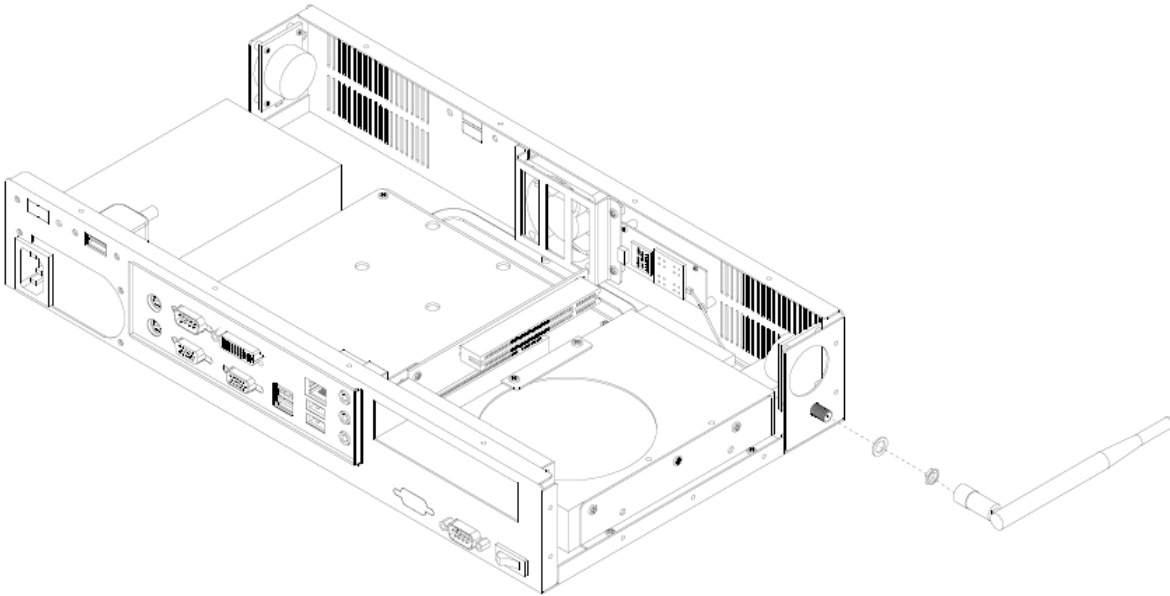


Step 1. Insert the PCI riser card and fasten with one screw.

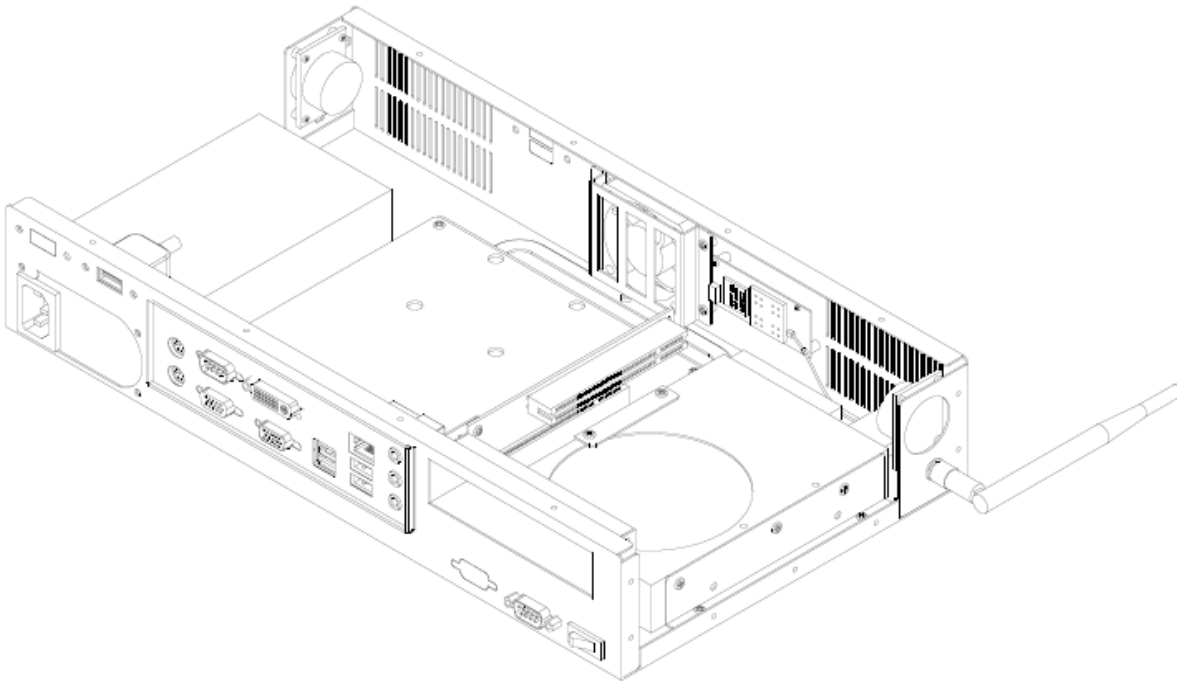


Step 2. Insert the PCI expansion card, then fixed the PCI bracket with one screw.

2.2.3 Install Antenna for USB WiFi Module

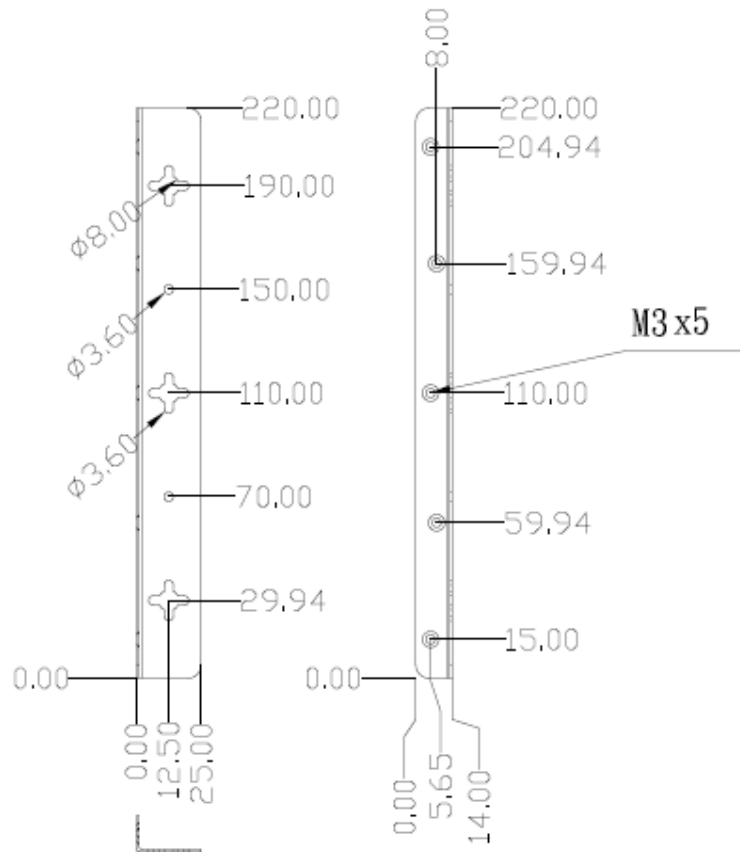


Step 1. Take out the antenna from the packing accessory, then fasten with the antenna screw through 2 holed screws as above



Step 2. After installing, remember to install the WiFi drivers from the enclosed CD-Driver before using the wireless networking.

2.3 Optional Side Bracket



(Unit: mm)

