

PPC-1529/1729/2129

15"/17"/21.5" Intel® Celeron® SoC Processor J1900 Fanless
Plastic Chassis Touch Panel PC

Quick Reference Guide

2nd Ed – 29 March, 2016

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THIS DEVICE COMPLIES WITH PART 15 FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:

- (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE.
- (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRE OPERATION.

THIS EQUIPMENT HAS BEEN TESTED AND FOUND TO COMPLY WITH THE LIMITS FOR A CLASS "A" DIGITAL DEVICE, PURSUANT TO PART 15 OF THE FCC RULES.

THESE LIMITS ARE DESIGNED TO PROVIDE REASONABLE PROTECTION AGAINST HARMFUL INTERFERENCE WHEN THE EQUIPMENT IS OPERATED IN A COMMERCIAL ENVIRONMENT. THIS EQUIPMENT GENERATES, USES, AND CAN RADIATE RADIO FREQUENCY ENERGY AND, IF NOT INSTALLED AND USED IN ACCORDANCE WITH THE INSTRUCTION MANUAL, MAY CAUSE HARMFUL INTERFERENCE TO RADIO COMMUNICATIONS.

OPERATION OF THIS EQUIPMENT IN A RESIDENTIAL AREA IS LIKELY TO CAUSE HARMFUL INTERFERENCE IN WHICH CASE THE USER WILL BE REQUIRED TO CORRECT THE INTERFERENCE AT HIS OWN EXPENSE.

Notice

This guide is designed for experienced users to setup the system within the shortest time. For detailed information, please always refer to the electronic user's manual.

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To receive the latest version of the user's manual; please visit our Web site at:

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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 PPC-1529/1729/2129 Panel PC
- 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 AC/DC adapter 12V/5A 60W (PPC-1529/1729); 12V/7A 84W (PPC-2129)



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

1.3 System Specifications

Component		
Model	PPC-1529	PPC-1729
Mother Board	EBM-BYT	
CPU	Onboard Intel® Celeron® J1900 2.0 GHz CPU	
CPU Cooler (Type)	Fanless Heatsink	Fanless Heat Pipe
Memory	One 204-pin SODIMM Supports Up to 4GB DDR3 1066MHz SDRAM (Default 2GB)	
Audio Codec	RealTek ALC892-GR	
Power Supply	External power adapter	
Adapter	12V/5A 60W Adapter	
Speaker	8Ω 2W*2	
Camera	Optional 2.0M CMOS WCAM w/ Mic-in	Optional 2.0M CMOS WCAM w/ Mic-in
Wireless LAN	Optional WiFi module	Optional WiFi module
Operating System	Windows 7 Windows Embedded Standard 7 Windows Embedded POSReady 7 Windows 7 For Embedded System Windows 8.1 Pro	Windows 7 Windows Embedded Standard 7 Windows Embedded POSReady 7 Windows 7 For Embedded System Windows 8.1 Pro
Storage		
Hard Disk Drive	2.5” HDD	
Solid State Drive	2.5” SSD (Default 32GB SSD)	
Other Storage Device	Type I/II CF	
Panel		
LCD Panel	15" XGA TFT LCD 1024*768	17" SXGA TFT LCD AUO 1280*1024
LCD Control Board	Built-in	
B/L Inverter/Converter	Built-in	
Touch Screen	15” 5-wire Resistive touch	17” 5-wire Resistive touch
Touch Controller	EETI ETP-CP-S458XRU	EETI ETP-CP-MER4485XRU V1.015.A
External I/O		
PS/2 KB & Mouse	-	-
Serial Port	1 x COM D-sub 9 Pin	
USB Port	4 x USB	
HDMI Port	1 x HDMI	
Audio Port	1 x Line out (RealTek ALC892-GR)	
LAN Port	2 x RJ-45	

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Wireless LAN Antenna	Optional PCB Antenna 2.4/5.0GHz	Optional PCB Antenna 2.4/5.0GHz
Switch	1 x Power Button	1 x Power Button
Expansion Slots	1 x MiniPCle Slot	1 x Mini PCle Supports SIM Card 1 x Mini PCle Supports mSATA
Mechanical		
Power Type	AT/ATX	
Power Connector Type	Lockable DC Plug	
Dimension	351mm x 319mm x 54mm	391.5mm x 364.5mm x 59mm
Weight	4.9 Kgs	5.9 Kgs
Color	White + Gray	White + Gray
Fanless	Fanless	Fanless
Reliability		
EMI Test	Class B	
Safety	CE FCC	
Operating Temperature	0°C ~ 40°C	
Operating Humidity	10% to 95% @ 40°C, Non-condensing	
Storage Temperature	-10~50°C	

Component	
Model	PPC-2129
Mother Board	EBM-BYT
CPU	Onboard Intel® Celeron® J1900 2.0 GHz CPU
CPU Cooler (Type)	Fanless Heat Pipe
Memory	One 204-pin SODIMM Supports Up to 4GB DDR3 1066MHz SDRAM (Default 2GB)
Audio Codec	RealTek ALC892-GR
Power Supply	External power adapter
Adapter	12V/7A 84W
Speaker	8Ω 2W*2
Camera	Optional 2.0M CMOS WCAM w/ Mic-in
Wireless LAN	Optional WiFi module
Operating System	Windows 7 Windows Embedded Standard 7 Windows Embedded POSReady 7 Windows 7 For Embedded System Windows 8.1
Storage	
Hard Disk Drive	2.5" HDD
Solid State Drive	2.5" SSD (Default 32GB SSD)
Other Storage Device	Type I/II CF
Panel	
LCD Panel	21.5" FHD TFT LCD 1920*1080
B/L Inverter/Converter	LED Driving board
Touch Screen	21.5" 5-wire Resistive touch
Touch Controller	EETI ETP-CP-S458XRU
External I/O	
Serial Port	1 x COM D-sub 9 Pin
USB Port	4 x USB
HDMI Port	1 x HDMI
Audio Port	1 x Line out
LAN Port	2 x RJ-45 Intel WGI211AT
Wireless LAN Antenna	Optional PCB Antenna 2.4/5.0GHz
Expansion Slots	2 x MiniPCle Slot
Mechanical	
Power Type	AT/ATX

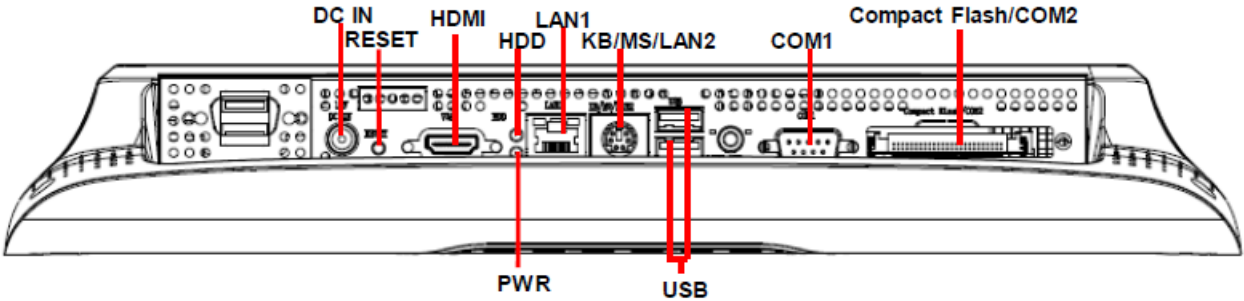
Power Connector Type	Lockable DC Plug
Dimension	542mm x 382mm x 63mm
Weight	8.5 Kgs
Color	White + Gray
Fanless	Fanless
Reliability	
EMI Test	Class B
Safety	CE FCC
Operating Temperature	0°C ~ 40°C
Operating Humidity	10% to 95% @ 40°C, Non-condensing
Storage Temperature	-10~50°C



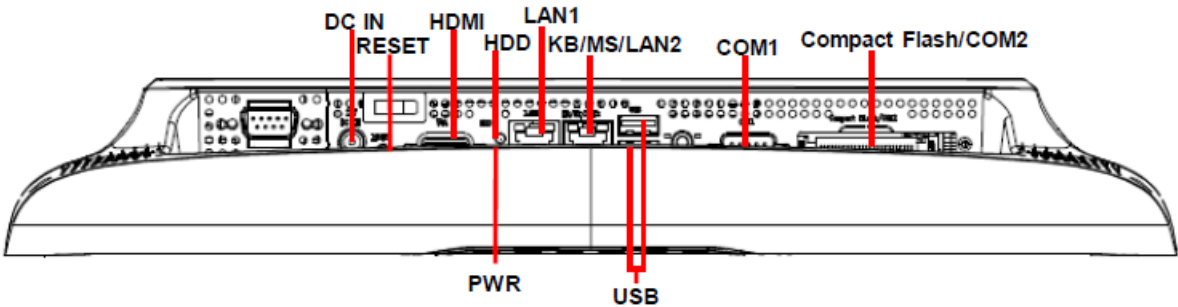
Note: Specifications are subject to change without notice.

1.4 System Overview

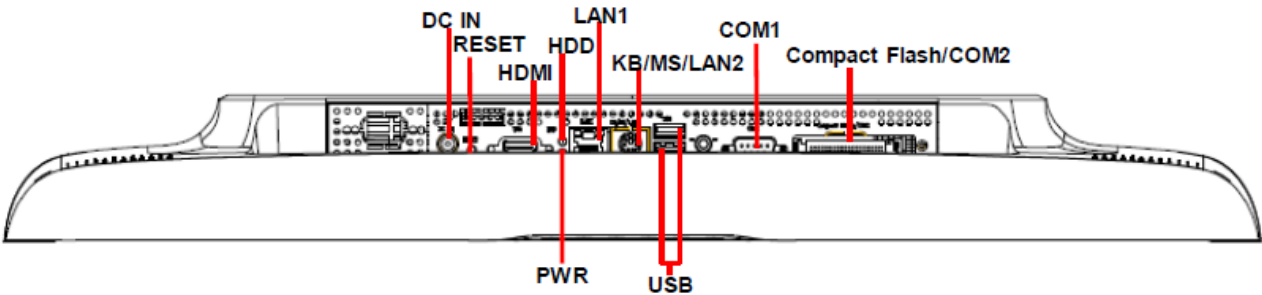
1.4.1 PPC-1529 Rear View



1.4.2 PPC-1729 Rear View



1.4.3 PPC-2129 Rear View

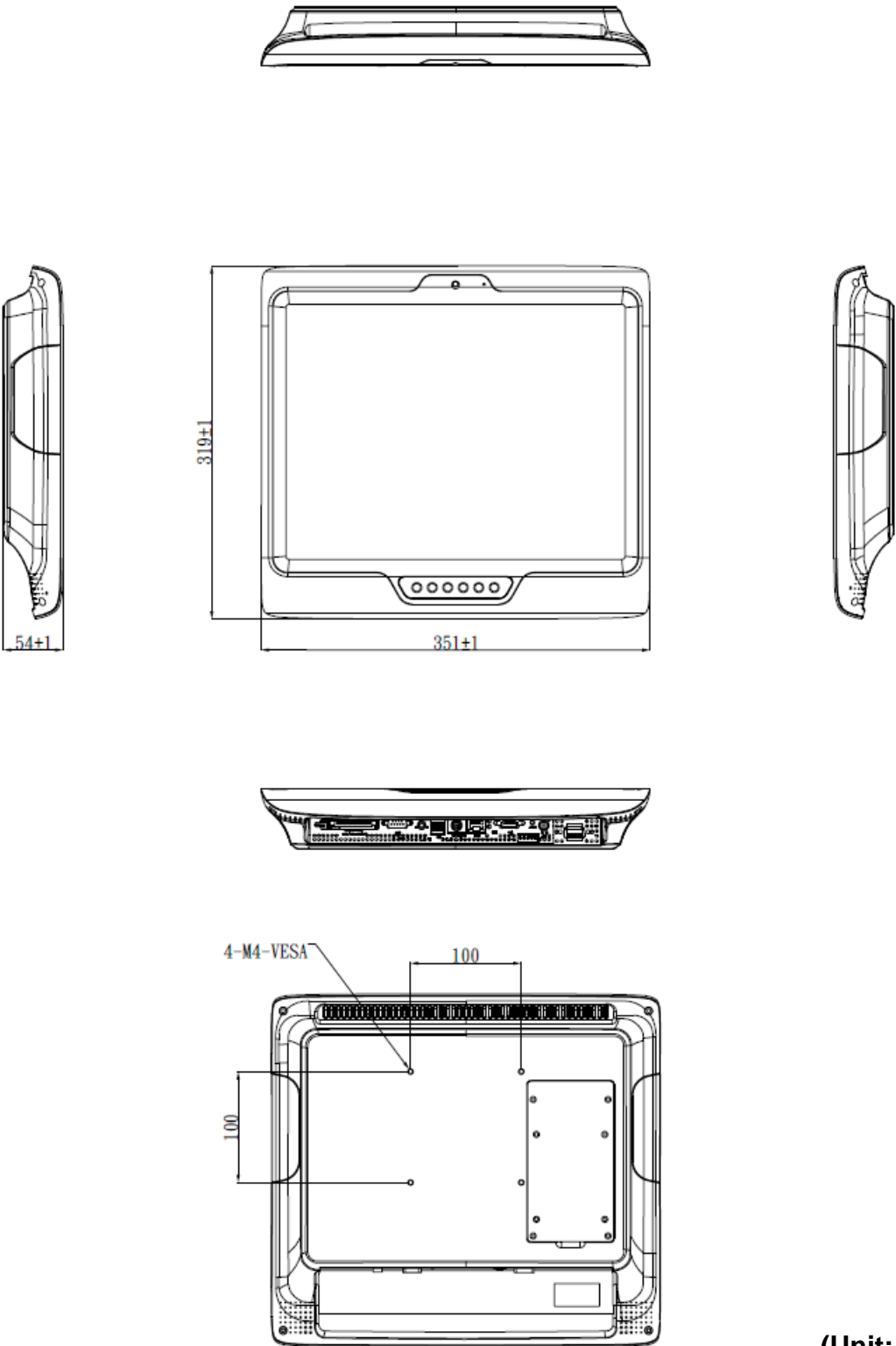


Connectors		
Label	Function	Note
COM1	Serial port 1 connector	DB-9 male connector
Compact Flash/COM2	CF Type I/II Socket with Ejector	

DC IN	DC Power-in connector
LAN1	RJ-45 Ethernet connector 1
KB/MS/LAN2	PS/2 keyboard & mouse connector Optional 2 nd LAN
USB	2 x USB 2.0 connector
HDD	HDD LED
PWR	Power LED
Reset	Reset button

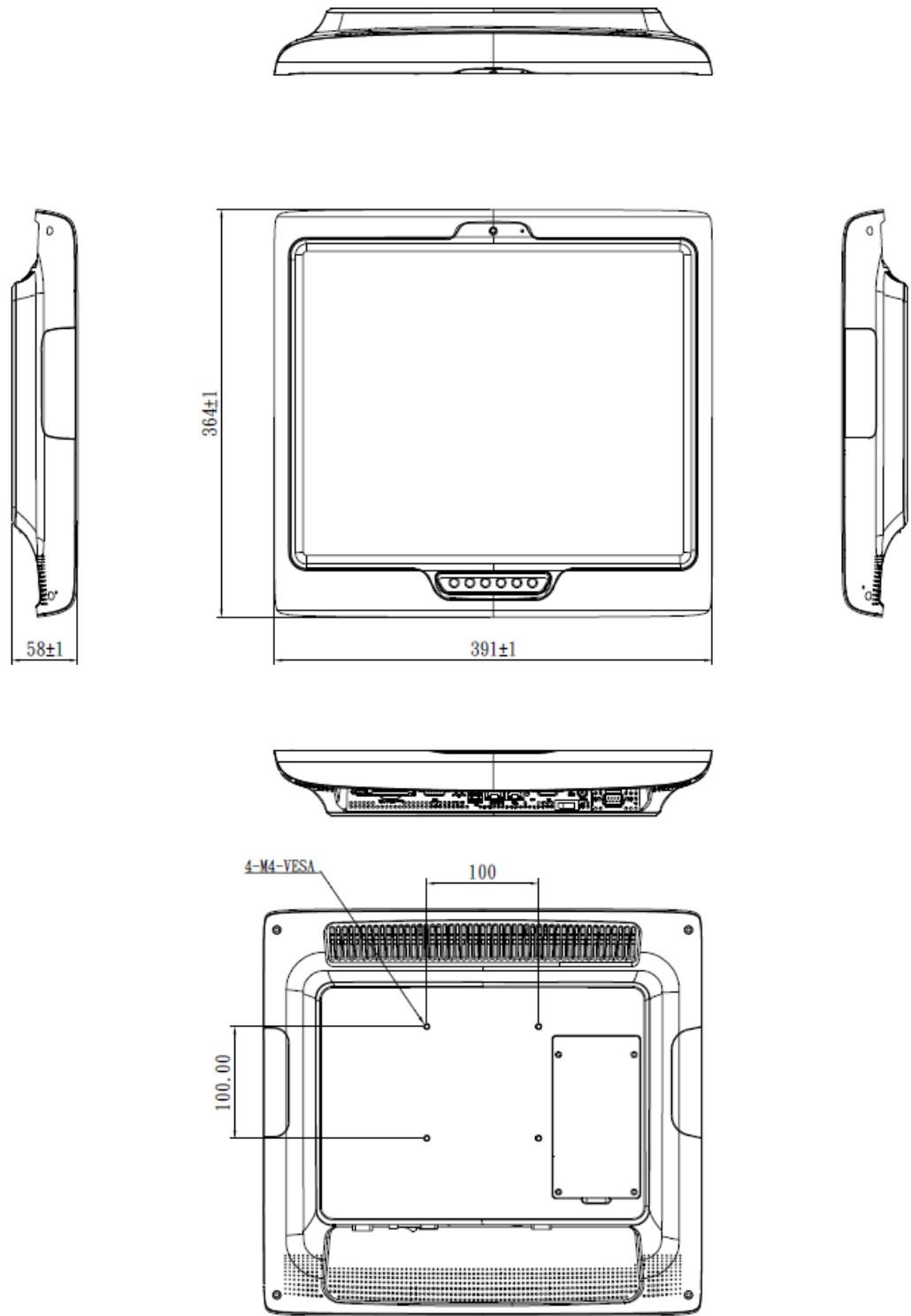
1.5 System Dimensions

1.5.1 PPC-1529



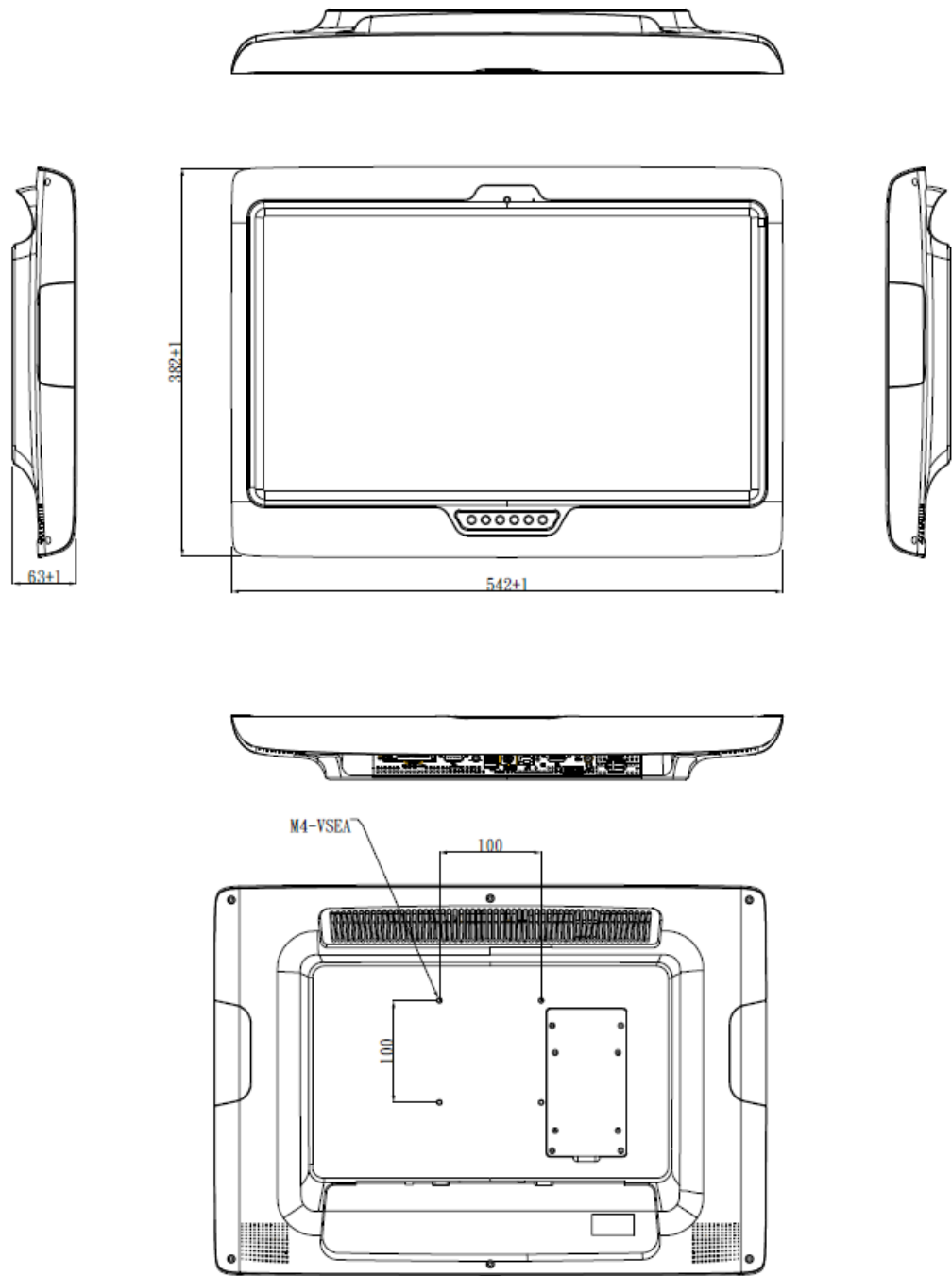
(Unit: mm)

1.5.2 PPC-1729



(Unit: mm)

1.5.3 PPC-2129



(Unit: mm)

2. Hardware Configuration

- Please refer to EBM-BYT User's Manual for further information.

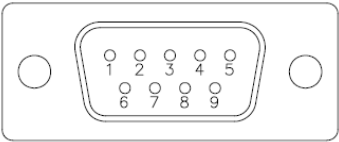
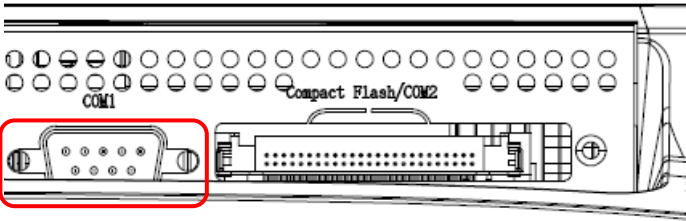


Note: If you need more information, please visit our website:

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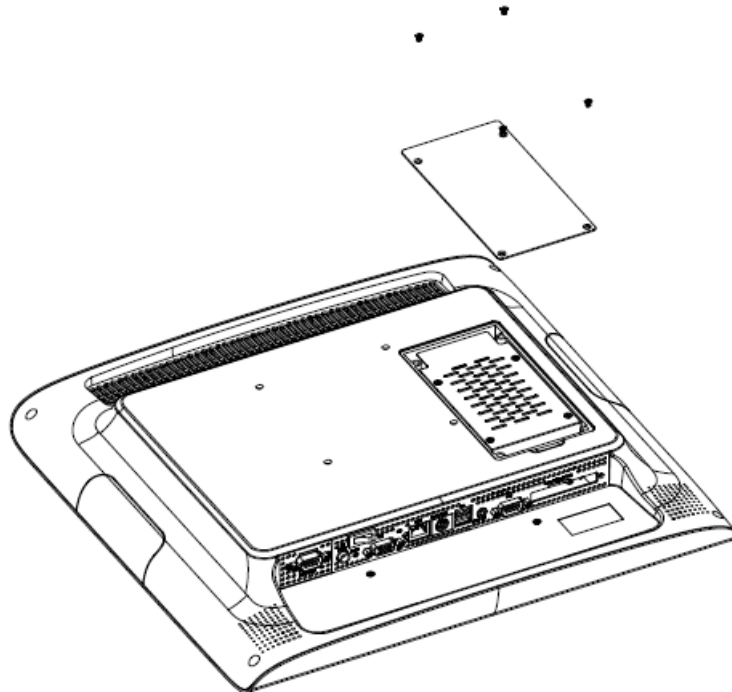
2.1 PPC-1529/1729/2129 connector setting

2.1.1 Serial port 1 connector (COM1)



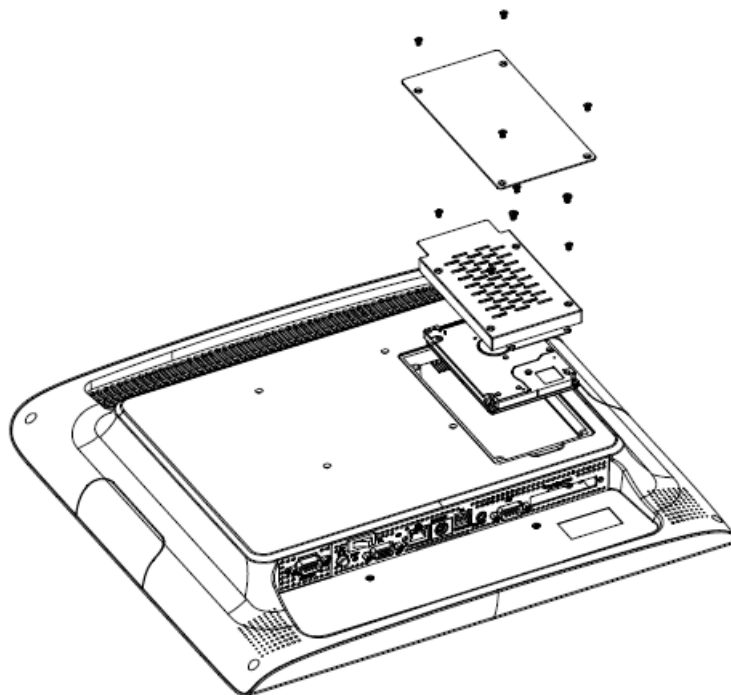
Signal	PIN	PIN	Signal
DCD	1	6	DSR
RXD	2	7	RTS
TXD	3	8	CTS
DTR	4	9	RI
GND	5		

2.2 Installing Hard Disk & Memory



Step 1. Unfasten 4 screws from the rear middle side of your panel.

Step 2. Remove the HDD service window.



Step 3. Slide HDD into its bracket until properly seated .

Step 4. Secure HDD by means of 4 screws.

