

PPC-5152-D525

15" Flat-bezel Industrial Panel PC

**Combo Gigabit LAN
(SFP Fiber/RJ-45)**

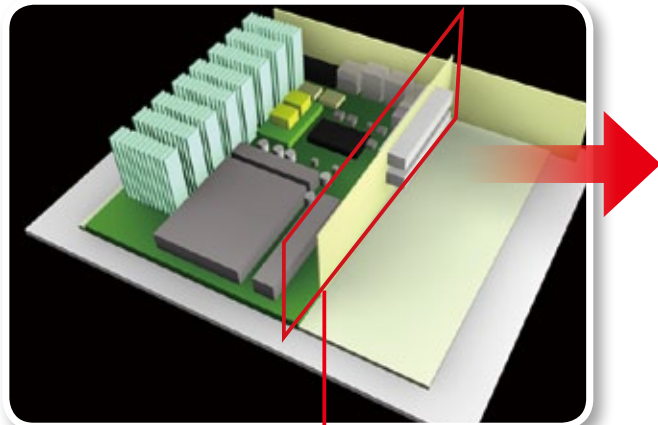
Features:

- Robust aluminum with IP 64 compliant front bezel design
- 5-wire resistive touch
- Intel® Atom™ D525 1.8GHz dual-core with fan-less design
- 15" 400 nits LED backlight panel with 1024 x 768 resolution
- Two USB 3.0, two USB 2.0 and five COM ports available
- Flexible expansion interface (two PCI slots or one PCI slot + one PCIe slot)
- Optional 4-channel video/audio capture card and Wi-Fi (802.11 b/g/n) available
- Built-in 1.3-megapixel webcam with autofocus, auto enhancement and auto white balance
- Dual combo (10/100/1000BASE-T(X) or 1000 baseSFP slot) gigabit LAN ports

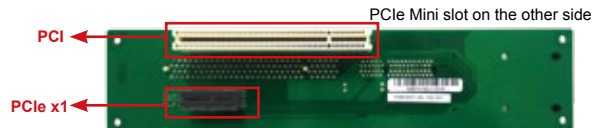


Flexible Expansion Interface

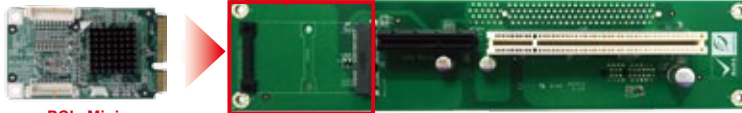
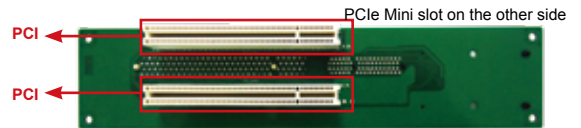
Compared to the PPC-5150, the PS2 power supply unit has been removed in order to maximize the expansion ability for customers who need rich I/O feasibility for their using scenarios. By out a PS2, this system is able to provide three more extended connections for customers.



1. One PCI and One PCIe x1 + One PCIe Mini card slot.



2. Two PCI slots + One PCIe Mini card slot



PCIe Mini card slot

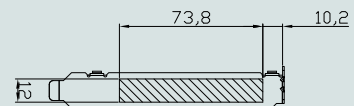
1 x 4-channel audio/video capture (optional)
1. 2. 3. 4.



This expansion slot can be connected to any standard PCIe Mini card. We also build a specific 4-channel audio/video capture card for the back side PCIe Mini card slot.



- The two types of backplanes support standard PCI/PCIe cards with maximum dimensions (WxHxD): 200mm x 100mm x 20 mm
- System default power is 90W, the max. total power of the backplane to support expansion cards is 35W, so the power consumption of selected expansion cards can't exceed 35W, otherwise, the system may be unstable. The length of IO on PCI/PCIe cards should not longer than 73.8mm

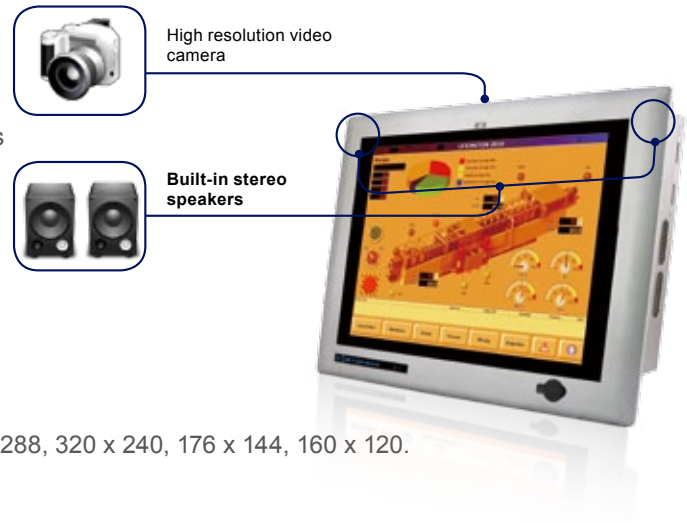


Voltage	Current
+5V	5A
+12V	2.4A
-12V	0.1A
+3.3V	8A
Max. power supported by the backplane: < 35W	

Rich I/O Interface with User-Friendly Design

A. 1.3M Webcam and 3W Speakers

- SXGA resolution image sensor
- Frame rate: 1280x1024@ 7.5fps, max. 640x480@ 24~30fps
- Auto white balance
- Auto exposure
- Auto compensation
- Focus range from 25 cm to infinity
- Flip control option
- High speed USB 2.0 interface
- Storage format of image: AVI
- Storage format of photograph: BMP, JPEG
- Video resolution: 1280 x 1024, 800 x 600, 640 x 480, 352 x 288, 320 x 240, 176 x 144, 160 x 120.

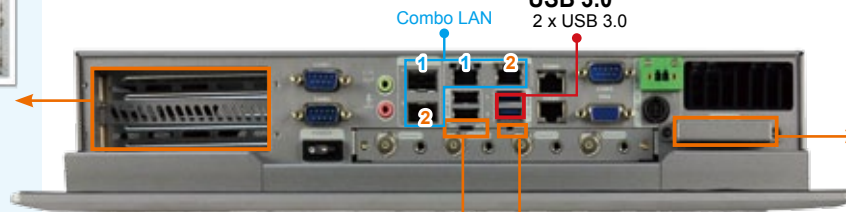


B. Super Speed USB 3.0

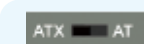
The SuperSpeed USB 3.0 technology supports data transfer rates up to 10 times faster than USB 2.0 with the optimized power efficiency.



USB 3.0
2 x USB 3.0



C. Expansion area



D. Selectable AT/ATX mode switch

AT power mode allows multiple panel PCs automatically start when the central power unit is connected. Applications:

- ATM
- Factory automation platform
- Self-service Kiosk

ATX power mode allows the panel PCs to be turned on/off remotely via network. Applications:

- Security surveillance
- Advertising terminal



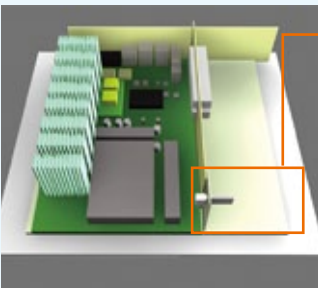
E. Reset button

The reset button forces the system to be reset when the system hangs up.



F. User-accessible CF

The PPC has a CF slot on the I/O side that makes it easy to install and replace the CF card.



G. Reserved internal USB

The PPC has an internal USB port reserved for an encryption card for software developers to provide intelligent software protection. The purpose of using software protection is to prevent intellectual properties from being illicitly used.



H. Front-accessible waterproof USB

The PPC provides a convenient front-accessible USB port protected with a waterproof cover for easy data update.

I. Dual Combo (SFP/RJ-45) Gigabit LAN

The PPC-5152 provides dual combo (SFP / RJ-45) gigabit LAN. For each pair of combo LAN, only one LAN port works at a time, and the SFP Fiber port works prior to the RJ-45 port. When a LAN port is working, the corresponding LED indicator lights up.



Flat-Bezel Touch Screen with IP 64 Protection

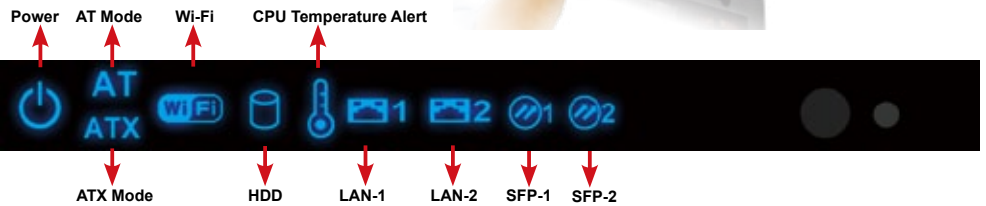
- Consumer outlook
- Industrial protection
- Flat design is easy to clean



Indicators

Power Switch

1. Press and hold 3 sec to power on
2. Press and hold 6 sec to power off



CPU Temperature Alert LED

The LED turns red to alert users that the CPU temperature is too high. Users at this time can lower the environment temperature or close some running programs to cool down the CPU.

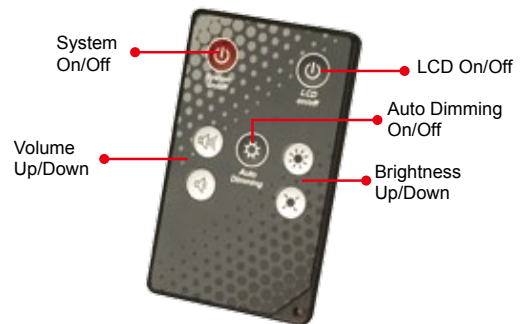
Auto Dimming

Auto dimming provides more comfortable viewing, less power consumption and extends lamp life.



IR Remote Controller

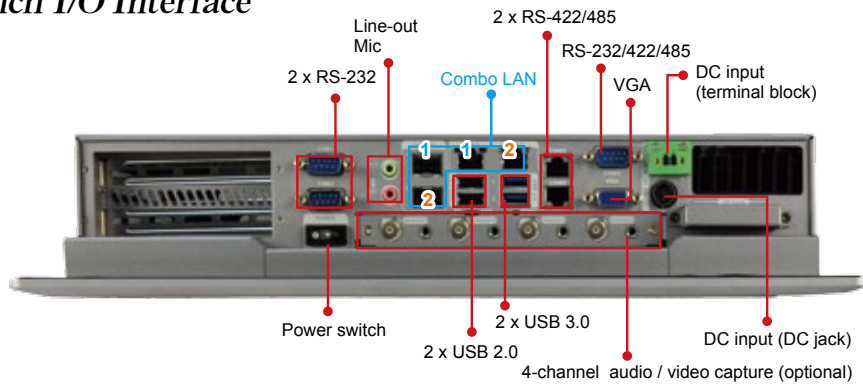
Easy-to-use remote control for adjusting screen brightness and volume.



Applications



Rich I/O Interface



Specifications

Model Name		PPC-5152-D525-R10
Display	LCD Size	15"
	Max Resolution	1024(W) x 768(H)
	Brightness (cd/m ²)	400
	Contrast Ratio	500:1
	LCD Color	16.2M
	Pixel Pitch (mm) (HxV)	0.1095(H) x 0.1095(V)
	Viewing Angle (V/H)	160° / 140°
	Backlight MTBF (hrs)	50000
	Touch Screen	Resistive Type 5-Wire with RS-232 interface
Touch Controller	DMC 9000	
Motherboard	SBC	PPCMB-5152A-D525
	CPU	Intel® Atom™ D525 1.8GHz dual core processor
	Chipset	Intel® ICH8M
	RAM	One 204-pin DDR3 SO-DIMM slot (Max.4GB)
	Ethernet	Realtek RTL8111E PCIe GbE controller supporting ASF 2.0
	Audio Codec	Realtek ALC888 audio codec
I/O ports and switches		2 x RS-232 (DB-9 connector)
		1 x RS-232 or RS-422/485 (DB-9 connector)
		2 x RS-422/485 (RJ-45 connector)
		2 x USB 2.0 connector
		VGA port (DB-15 connector)
		2 x Audio jacks (line-out, Mic)
		2 x USB 3.0 connector
		AT/ATX switch
		2 x Combo (SFP / RJ-45) Gigabit LAN
Drive Bay	HDD Drive Bay	2.5" SATA HDD bay
	SSD	CF Type II socket
	CD-ROM Drive Bay	N/A
Physical	Front Panel Construction	Aluminum
	Chassis Construction	Heavy duty steel (SECC)
	Mounting	Panel, Wall, Rack, Stand and Arm (VESA 100 mm x 100 mm)
	Front Panel Color	Silver, Paint Tone PMS 8401C
	Dimensions (WxHxD) (mm)	422 x 331 x 80
	Cut Out Dimensions (WxH) (mm)	390 x 290
	Net / Gross Weight	6.5 kg/ 8.8 kg
Expansion Slot	Two PCI slots or one PCI slot plus one PCIe x1 slot	
System Cooling	Burglar-proof internal USB 2.0 port	
Environment	Operating Temperature	Fanless
	Storage Temperature	-20°C ~ 50°C
	Vibration	-20°C ~ 70°C
	Shock	MIL-STD-810F 514.5C-2 (with CF card or SSD)
	IP level	Half-sine wave shock 3G; 11ms; 3 shocks per axis
	Safety & EMC	Front Panel IP 64
Power	Power Adapter	CE / FCC
		90W power adapter
	Power Requirement	Input: 100VAC~240VAC, 50/60Hz
		Output: 19V DC
	Consumption	9~36V DC Jack
		9~36V Terminal Block
		50W without add-on card

Ordering Information

	Part No.	Description
Converter card (HPE-2S1)	PPC-5152-D525/R/1G/2P-R11	15" 400 cd/m ² XGA Fanless Panel PC with two PCI expansion slots, Intel® Atom™ D525 1.8GHz CPU, 1GB DDR3 RAM, 2M camera, microphone, touch screen, R11
Converter card (HPE-2S2)	PPC-5152-D525/R/1G/1P1E-R11	15" 400 cd/m ² XGA Fanless Panel PC with one PCI and one PCIe x1 expansion slot, Intel® Atom™ D525 1.8GHz CPU, 1GB DDR3 RAM, 2M camera, microphone, touch screen, R11

Options

Item	P/N	Description
Panel Mounting Kit	PK-170M	
Wall Mounting Kit	WK-190MS-R10	
ARM	ARM-11-RS/ARM-31-RS	
Stand	STAND-A19-RS/STAND-A21-R10/STAND-210-R11	
Wi-Fi Module Kit	PPC-WL-KIT01-R10	Wi-Fi module with RF cable and antennas, 2T2R, 802.11 b/g/n.
Capture Card Kit	PPC-CP-KIT01-R10	4-channel video/audio capture card with input panel and cable, PCIe Mini interface, NTSC/PAL
Gigabit Ethernet SFP Module	SFP1G-SX-I	1Gbps SFP optical transceiver, multi-mode / 550m, 850nm (0 ~ 70°C) / industrial grade (-20 ~ 85°C)
	SFP1G-MLX-I	1Gbps SFP optical transceiver, multi-mode / 2Km, 1310nm (0 ~ 70°C) / industrial grade (-40 ~ 85°C)
	SFP1G-LX10-I	1Gbps SFP optical transceiver, single-mode / 10Km, 1310nm (0 ~ 70°C) / industrial grade (-40 ~ 85°C)
	SFP1G-XD70-I	1Gbps SFP optical transceiver, single-mode / 50Km, 1550nm (0°C ~ 70°C) / industrial grade (-40°C ~ 85°C)
Fiber Cord	FPC-LCLC-MM3M	Optical connector LC/LC, multi-mode, diameter 62.5/125 μm, length 3m.
	FPC-LCLC-SS3M	Optical connector LC/LC, single-mode, diameter 9/125 μm, length 3m.
OS: Win CE 6.0 (128MB CF Card)	PPCCF-5152-D525-CE060-128M-R10	
OS: Win XPE (2GB CF Card)	PPCCF-5152-D525-XPE-2G-R10	
OS: Win XPE (4GB CF Card)	PPCCF-5152-D525-XPE-4G-R10	
OS: Linux (2GB CF Card)	PPCCF-5152-D525-LNX-2G-R10	
OS: Win 7 Embedded (4GB CF Card)	PPCCF-5152-D525-WES7E-4G-R10	

(*it doesn't include video/audio capture card's driver)

Packing List

Item	P/N	Q'ty	Description
Utility CD	7B000-000732-RS	1	Drivers and user manual
One Key Recovery CD		1	
VESA Mounting Screw	44033-040062-RS	4	M4*6 for securing stand bracket
Chassis Screw	44013-030041-RS	4	M3*4 chassis screw for backup
Capture Card Screw	44003-030062-RS	4	M3*5 capture card screw for backup
VESA Fastener	19Z00-000024-RS	6	
HDD Screw	44043-030051-RS	4	
Pluggable DC-in Terminal Block	33101-000897-RS	1	
RJ-45 to DB9 COM port Cable	32005-000700-100-RS	2	
Touch pen	43125-0002C0-00-RS	1	
IR Remote Controller	7Z000-SLPCB005-RS	1	
Power Adapter	63040-010090-020-RS	1	FSP090-D2BA1;90~264VAC input;90W;19VDC output
Power Cord	32702-000401-100-RS	1	1500 mm, European Standard
Power Transfer Cord	32702-000300-100-RS	1	

Dimensions (Unit: mm)

