

**BIRCH**<sup>®</sup>

# C Z A R

all-in-one system

Elegance lies in the  
excellent details

Fanless(J1900)or Silent Fan(i3/i5)



# Absolutely desirable.

Czar system is here---exquisite all-in-one system with several models available for your applications. Performance you can feel, a product you can count on.

	15" Czar Core i3/i5/i7 All-in-one system PP8300(PP8500,PP8700)-25	15" Czar J1900 All-in-one system (Fan-less) PP8100-15
<b>Main Board</b>		
CPU	Socket G(rPGA-989) Support IVY & Sandy Bridge Intel® Core i5/i3 Dual Cores CPU Support: Intel® Core i5-3210M (2.5GHz@35W) Intel® Core i3-3110M (2.4GHz@35W) Intel® Core i5-2540M (2.6GHz@35W) Intel Core i7-3XXX( @35W)	Intel® Celeron® Processor J1900 (2M Cache, up to 2.42 GHz) Integrated
Chipset	Intel HM76 Express Chipset	
System Memory	2x SO-DIMM (204pin) Slot, DDR3 1333 MHz, Max 8GB Registered DIMM or ECC DIMM is not supported	2x SO-DIMM (204pin) Slot, DDR3 1333 MHz, Max 8GB Registered DIMM or ECC DIMM is not supported
<b>LCD Panel</b>		
Panel Size	15"	15"
Maximum Resolution	1024 x 768	1024 x 768
Brightness	250 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>
Contrast Ratio	600 : 1	600 : 1
Response Time	8 ms	8 ms
View Angles (H/V)	160 / 140	160 / 140
Touch Panel	Projected Capacitive Multi-Touch Panel(10 point)	Five Wires Resistive
<b>Storage</b>		
HDD	2.5" SATA interface x 2	2.5" SATA interface x 1
<b>Expansion</b>		
PCI-E Slot	x 1	x 1
Mini PCI-E Slot	x 1 (Support SIM card)	x 1 (Support mSATA)
<b>Power</b>		
Power Adaptor	Input AC 100-240V 2.5A 50/60Hz, Output DC 12V 6.66A	Input AC 100-240V 2.5A 50/60Hz, Output DC 12V 6.66A
<b>I / O</b>		
USB	4 USB2.0 & 2 USB3.0	x 6 USB2.0
Serial	x 4 ( with 0V/ 5V / 12V power selectable )	x 3 standard RS-232 COM1 with 5V / 12V power selectable
LAN	x 1	x 2
2nd VGA Output	x 1	x 1
PS/2(keyboard)	x 1	x 1
Audio	1 Line Out & 1 Microphone In	2 Line Out & , 2 Microphone In
<b>Control/Indicator</b>		
Power Button	x 1	x 1
LED Indicators	Power (RED)	Power (RED)
<b>Optional Peripherals</b>		
Magnetic Card Reader	ISO Track 1/2/3, USB interface	ISO Track 1/2/3, USB Interface
VFD customer display	20 x 2 characters, RS-232 interface	20 x 2 characters, RS-232 interface
Second Display	8"/10.4"( 800 x 600) and 15"( 1024 x768)	8"/10.4"( 800 x 600) and 15"( 1024 x768)
Second HDD	2.5" SATA interface	-
Others	WiFi, iButton	WiFi, iButton
<b>Dimensions</b>		
15" PP Core i3/i5 system	358(W) X 70.5(L) X 293(H) mm	15" PP Czar system 358(W) X 70.5(L) X 293(H) mm
15" PT core i3/i5 system	358(W) X 231(L) X 308(H) mm ( with A4 desktop stand)	15" PH Czar system 358(W) X 231(L) X 308(H) mm ( with A4 desktop stand)
<b>Environment</b>		
Operating Temperature	0°C ~ 40°C ( 32°F ~ 104°F )	0°C ~ 40°C ( 32°F ~ 104°F )
Storage Temperature	- 20°C ~ 60°C ( - 4°F ~ 140°F )	- 20°C ~ 60°C ( - 4°F ~ 140°F )
Operating Humidity	10% - 80% RH non condensing	10% - 80% RH non condensing
Storage Humidity	10% - 80% RH non condensing	10% - 80% RH non condensing

## Ordering information in brief:

• 15" Czar panel PC ( J1900, core i3, core i5) • 15" Czar all-in-one ( J1900 , core i3, core i5 )with A4 stand

• 15" Czar all-in one( J1900, core i3, core i5) with A8V trunk( 80mm thermal printer built-in)

<PS> The default touch of J1900 Czar is 5-wire resistive touch, and the default touch of core i3 and core i5 is projected capacitive touch.



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