



Czar, Commitment to performance excellence

Its hallmark is operation excellence and its objective is to provide the best system for your applications.

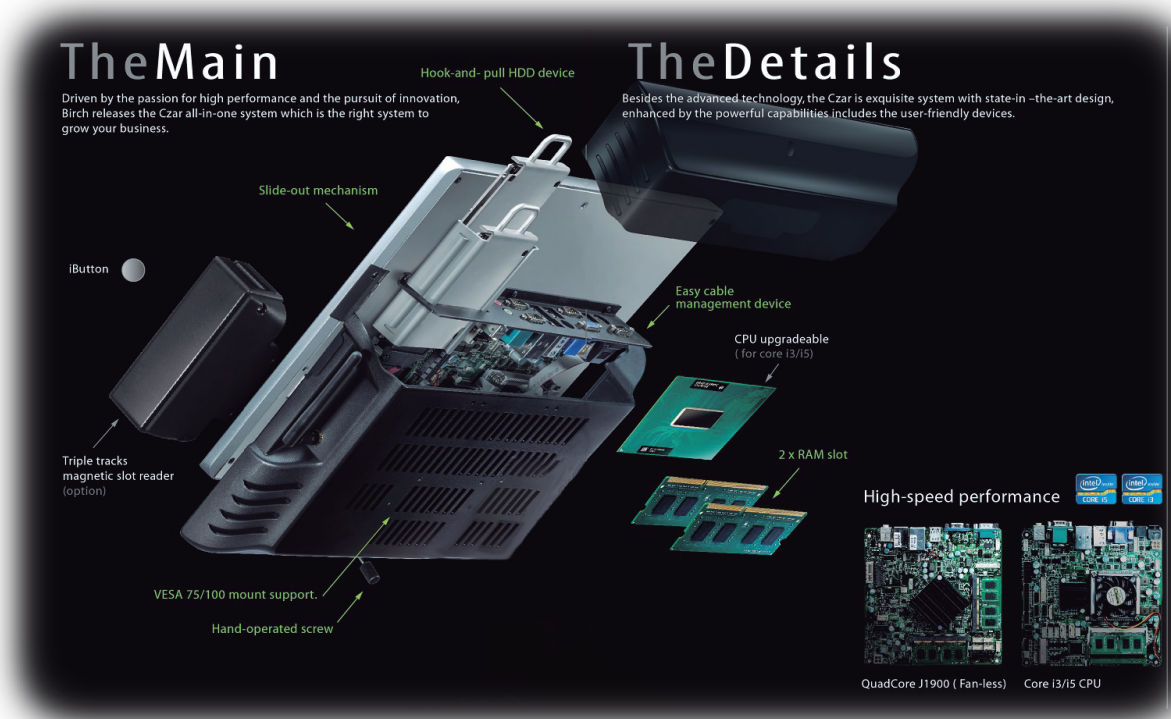
With deep roots in the total solutions experience, as well as extensive knowledge and understanding of the market's needs, we have released the 15" Czar all-in-one system for hospitality, Kiosk... markets.

The Main

Driven by the passion for high performance and the pursuit of innovation, Birch releases the Czar all-in-one system which is the right system to grow your business.

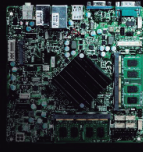
The Details

Besides the advanced technology, the Czar is an exquisite system with state-in -the-art design, enhanced by the powerful capabilities includes the user-friendly devices.

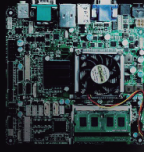


- Hook-and- pull HDD device
- Slide-out mechanism
- iButton
- Triple tracks magnetic slot reader (option)
- VESA 75/100 mount support.
- Hand-operated screw
- Easy cable management device
- CPU upgradeable (for core i3/i5)
- 2 x RAM slot

High-speed performance



QuadCore J1900 (Fan-less)



Core i3/i5 CPU

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, PPB700)-25	15"Czar J1900 All-in-one system (Fan-less) PP8100-15
Main Board		
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
LCD Panel		
Panel Size	15"	15"
Maximum Resolution	1024 x 768	1024 x 768
Brightness	250 cd/m ²	250 cd/m ²
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 Panell (10 point]	Five Wires Resistive
Storage		
HDD	2.5" SATA interface x 2	2.5" SATA interface x 2
Expansion		
PCI-E Slot	x 1	x 1
Mini PCI-E Slot	x 1(Support SIM card)	x 1(Support mSATA)
Power		
Power Adaptor	Input AC 100-240V 2.5A 50/60Hz, Output DC I2V 6.66A	Input AC 100-240V 2.5A 50/60Hz, Output DC I2V 6.66A
I / O		
USB	x 4 USB2.0 & x 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 1
2nd VGA Output	x 1	x 1
PS/2(Keyboard)	x 1	x 1
Audio	x 1 Line Out & x 1 Microphone In	x 2 Line Out & x 2 Microphone In
Control/indicator		
Power Button	x 1	x 1
LED Indicators	Power (RED)	Power (RED)
Optional Peripherals		
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"(1024x768)	8"/10.4" (800 x 600) and 15"(1024x768)
Second HDD	2.5' SATA interface	-
Others	WIFI, iButton	WIFI, iButton
Dimensions		
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
Environment		
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)
Storage Temperature	- 20°C ~ 60°C (-6°F ~ 140°F)	- 20°C ~ 60°C (-6°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

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