Technical Specifications

PROCESSOR OPTIONS	Celeron P4500	i5 Dual Core	i7 Dual Core
Type & Processor	Intel Dual Core Celeron P4500	Intel i5 Dual Core 520M	Intel i7 Dual Core 620M
Core Speed	1.86 GHz	2.4 GHz	2.66 GHz
Threads	2	4	4
Bus/Core	14	18	20
L2 Cache	2MB	4MB	4MB
Chipset	Intel HM55 (BD82HM55 PCH)	Intel HM55 (BD82HM55 PCH)	Intel HM55 (BD82HM55 PCH)
Video Ram	64 MB System RAM Base **1**	64 MB System RAM Base **1**	64 MB System RAM Base **1**
Ethernet Controller	Realtek 10/100/1000 (2 ports)	Realtek 10/100/1000 (2 ports)	Realtek 10/100/1000 (2 ports)

1 Additional Video RAM as needed with DVMT (Dynamic Video Memory Technology).

MEMORY & I/O	
DRAM	2GB Single Module (204-pin DDR3 SO-DIMM, non-ECC, unbuffered, 1066 MHz); Optional 4GB max
Standard Storage	Intel 40GB SATA Solid State Drive
Optional Storage	80GB, 160GB or 300GB Solid State Drive; 250GB SATA Conventional Hard Drive
Available I/O	(1) HDMI Port, (6) USB 2.0, (2) RS-232, (1) RS-485/422 (jumper selectable), (1) Analog Video Port (supports dual video), (2) Ethernet 10/100/1000 Ports

DISPLAY	iPC1200	iPC1500	iPC1700	iPC1900
Display Diagonal	**12.1"** (307.34mm)	**15.0"** (381.0mm)	**17.0"** (431.8mm)	**19.0"** (482.6mm)
Display Sizes (Active Area H x V)	9.69" x 7.26" (246.0mm x 184.5mm)	11.97" x 8.98" (304.0mm x 228.1mm)	13.30" x 10.64" (337.9mm x 270.3mm)	14.82" x 11.85" (376.3mm x 301.1mm)
Native Resolution	SVGA, 800 x 600	XGA, 1024 x 768	SXGA, 1280 x 1024	SXGA, 1280 x 1024
Brightness, Typical	450 Nit	400 Nit	350 Nit	300 Nit
Contrast Ratio, Typical	600:1	600:1	1000:1	2000:1
Horizon/Vertical View Angle, CR>5, Typical	140°/120°	140°/120°	170°/170°	178°/178°
Backlight Life, Typical	50,000 hrs	50,000 hrs	50,000 hrs	50,000 hrs

TOUCHSCREEN (all models)	
Touch Screen Technology	5-wire Analog Resistive
Resolution	4096 x 4096
Positional Accuracy (Maximum Error)	0.18" (0.19" iPC1900) 4.57mm (4.83mm iPC1900)
Positional Accuracy (Standard Deviation of Error)	< 0.08" (< 2.0 mm)
Expected Life	>35,000,000 Activations

ELECTRICAL	
AC Input Voltage	100-240 VAC, 50/60 Hz
AC Input Current	1.0 A Maximum
DC Input Voltage (optional)	18-36 VDC
DC Input Current (optional)	4.5 A Max @ 24VDC
Input Power	iPC1200 - 70 W Typical iPC1500 - 80 W Typical* iPC1700 - 85 W Typical* iPC1900 - 90 W Typical*

* Typical Power is measured without any additional I/O or expansion options. Any additional I/O installed during application can increase this value.

ENVIRONMENTAL	Operating	Non-operating
Temp.	0°C to 50°C	-20°C to 60°C
Humidity	20% to 80% RH, noncondensing	
Shock 1	15g peak acceleration, 11msec	30g peak acceleration, 11msec
Vibration 1 (5-2000 Hz)	0.006" peak to peak displacement, 1.0g max acceleration	0.015" peak to peak displacement, 2.5g max acceleration
Altitude 2	Sea level to 10,000 feet	Sea level to 40,000 feet

1 Shock & Vibration specifications established with Solid State drives and no rotating media.

2 Altitude specification is established by using all internal component specifications.

AGENCY	
Front Panel NEMA Rating	NEMA 4/4X/12, IP65
FCC	47 CFR, Part 15, Class A
EU CE Marking Compliance *(pending)*	CE, EN 55022: Class A, EN 61000-3-3, EN 61000-6-2, IEC 60950-1, RoHS compliant
Safety Agency Approvals *(pending)*	UL 508 Listed, ANSI/ISA 12.12.01-2011 **1** cUL Listed CSA 22.2, #142 cUL Listed CSA 22.2, #213 *

* Class I Division 2, Groups A, B, C, D; Class II Division 2, Groups F & G; Class III; Temp. Code T4A, when installed on a flat surface of a Type 1, 4, 4X, or 12 enclosure.

1 ANSI/ISA 12.12.01-2011 is the new standard listed to show Hazardous Locations Agency Approval. UL1604 will be discontinued by July 31, 2012.