

Impact-E 30 / 35



IMPACT-E

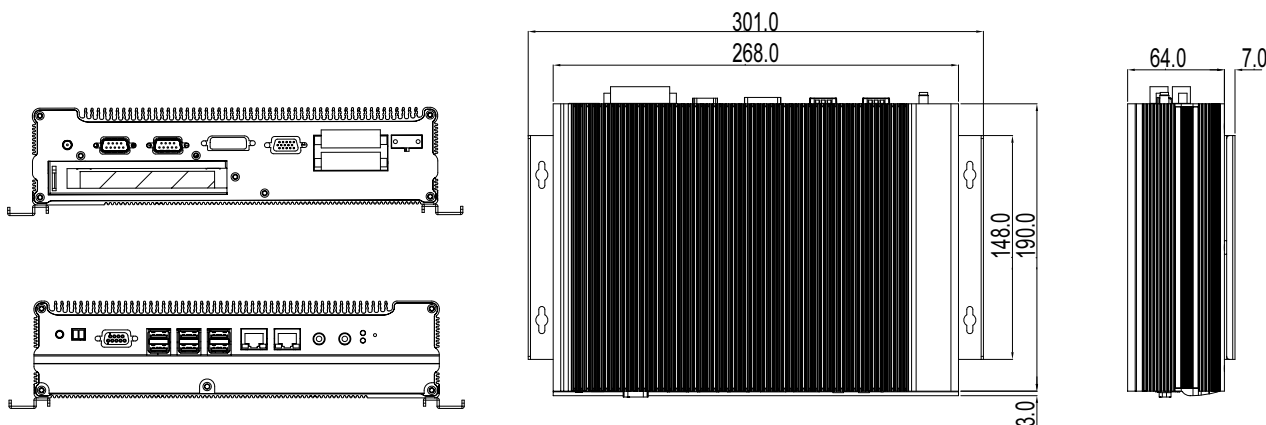
Features

The Impact-E 3X series are next generation embedded systems that utilise the ATOM N270 processor to achieve high performance at very low power consumption - typically around 10W with Windows XP Professional installed. With such low power requirements, it is feasible to power these systems from a solar panel or battery. The other key feature facilitated by an ATOM processor is the wide -20 to +50°C operating temperature of the Impact-E 3X.

Impact-E 30 has a PCI expansion slot and Impact-E 35 has a PCI Express expansion slot allowing 3rd party cards to be added to the system. Both products have a rugged fanless design with dual Gigabit LAN, 4 x RS232, 2 x RS232/422/485 selectable and 6 x USB 2.0 ports, and many more useful features.

Systems can be tailored to meet your exact requirements. Each system comes with a 3 year warranty.

Dimensions



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The information is believed to be accurate. However Amplicon Liveline Limited accepts no responsibility for any problems caused by errors and omissions. Specifications are subject to change without notice.

Specifications

Hardware specification	CPU: Intel Atom N270 1.6GHz, 533MHz FSB, 512KB Cache Main memory: 2GB (1GB 200-pin SODIMM DDR2 + 1GB onboard) Chipset: Intel 945GSE + ICH7M LAN: Gigabit LAN x 2 Watchdog timer: Reset supported, 1 ~ 255 level	Environmental storage	Temperature: -20 to 80°C Humidity: 5 to 90% non-condensing
BIOS	AMIBIOS 8 Mbit BIOS flash	Electromagnetic compatibility (EMC)	EN55022 Class A EN55024 Industrial severity (where applicable) Electrostatic discharge immunity test (EN61000-4-2) Enclosure port ±4kV Contact, applied to enclosure port ±8kV Air, applied to enclosure port ±4kV Indirect, applied to coupling plane Radiated, radio-frequency, electromagnetic field immunity test (EN61000-4-3) Enclosure port 80-1000MHz, 3 V/m (RMS, no modulation) 80% Modulation with 1kHz Sine wave Electrical fast transient/burst immunity test (EN61000-4-4) Power port ac, inc. protective earth Severity ±1kV Surge Immunity test (EN61000-4-5) Power port ac Severity ±1kV applied line to line Severity ±2kV applied line to earth Immunity to conducted disturbances induced by radio frequency fields (EN61000-4-6) Power port ac, inc. protective earth via CDN M3 0.15-80MHz, 3 V/m (no modulation) 80% Modulation with 1kHz Sine wave, applied via CDN type M3 Voltage dips, short interrupts and voltages variations immunity tests (EN61000-4-11) Power port ac >95% Reduction, 0.5 Periods >30% Reduction, 25 Periods >95% Reduction, 250 Periods FCC Tested for compliance to 47 CFR, Part 2, Part 15 Subpart B:2005 Amplicon own a fully equipped EMC facility and can provide many additional tests to meet your requirements.
System options	Impact-E 30-160GB: PCI slot, 160GB HDD, 2GB RAM Impact-E 30-8GB: PCI slot, 8GB Solid state drive, 2GB RAM Impact-E 35-160GB: PCIe x1 slot, 160GB HDD, 2GB RAM Impact-E 35-8GB: PCIe x1 slot, 8GB Solid state drive, 2GB RAM	Safety	External PSU (EN 60950), CE Marked
Storage	Upgrade option: Fujitsu 2.5" Rugged extended duty 160GB SATA HDD, 8 MB Cache, 5400 RPM* *Industrial grade CompactFlash cards, solid state drives and other storage / backup solutions are available on request	Reliability	System MTBF: >145,146 hrs @ 25°C (not including storage device) CompactFlash cards have a finite number of write-erase cycles, and their life is highly dependant upon the operating system and application software. Full burn-in diagnostic run on every system
System expansion	Impact-E 30: 1 x PCI slot (168mm* length, PCI V2.2 Compliant) Impact-E 35: 1 x PCIe x1 slot (168mm* length) *Slot may support cards up to 174mm in length depending on card layout.		
Supported OS	Windows XP Embedded, Windows XP FES, Windows CE 6.0, Linux kernel 2.4.16 or above If your desired operating system is not listed, please contact us		
Interfaces	Front: 1 x ATX power on/off unlock switch 1 x 2-pin connector for remote power on/off switch 1 x Digital I/O 6 x USB 2.0 2 x RJ45 10/100/1000 Ethernet LAN 2 x LAN status LEDs (2 x link and activity status) 1 x Mic-in 1 x Audio-out 1 x Power (PC ON) LED 1 x Hard disk access LED Rear: 6 x Serial Ports: 4 x RS 232, 2 x RS 232 / 422 / 485 (COM 2 & 3) 1 x DVI-D interface 1 x VGA connector 1 x DC power input 1 x PCI slot (Impact-E 30 only) 1 x PCIe x1 slot (Impact-E 35 only) Internal: 1 x CompactFlash socket (internal access) 1 x 2.5" hard disk drive or solid state drive (SATA interface)		
Main board power input details	Supports DC input voltage from +9 V to + 36 V DC		
External power adaptor	Power input: 100 ~ 240V AC, 1.2A, 50 ~ 60 Hz Power Rating: 70W maximum load, 11.04W idle, 11.04 ~ 17.52W typical* Voltage output: +19V DC (3.95A max) * Excluding expansion cards		
Mechanical	Design: Rugged compact embedded design Cooling: Fanless design Construction: Heavy duty aluminium Colour: Black (custom colours available for large orders) Dimensions: 268(W) x 65(H) x 190(D) mm Packaged dimensions: 365(W) x 165(H) x 340(D) mm Gross weight: Approximately 2.6kg Packaged gross weight: Approximately 4.6kg		
Mounting orientation	Wall mount (kit supplied as standard) VESA mount 100mm (kit optional)		
Environmental operational	Acoustic noise: Near silent operation Temperature: 5 to 45°C (with 2.5" HDD), -20 to 50°C (with CompactFlash card or solid state drive) Humidity: 0 to 90% non-condensing		

25-08-09

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