

Impact - E 50



Features

The compact fanless rugged design of the Impact-E is ideally suited to a variety of embedded applications. Powered by an Intel Pentium M processor, this system can provide the performance necessary for high speed and intensive tasks.

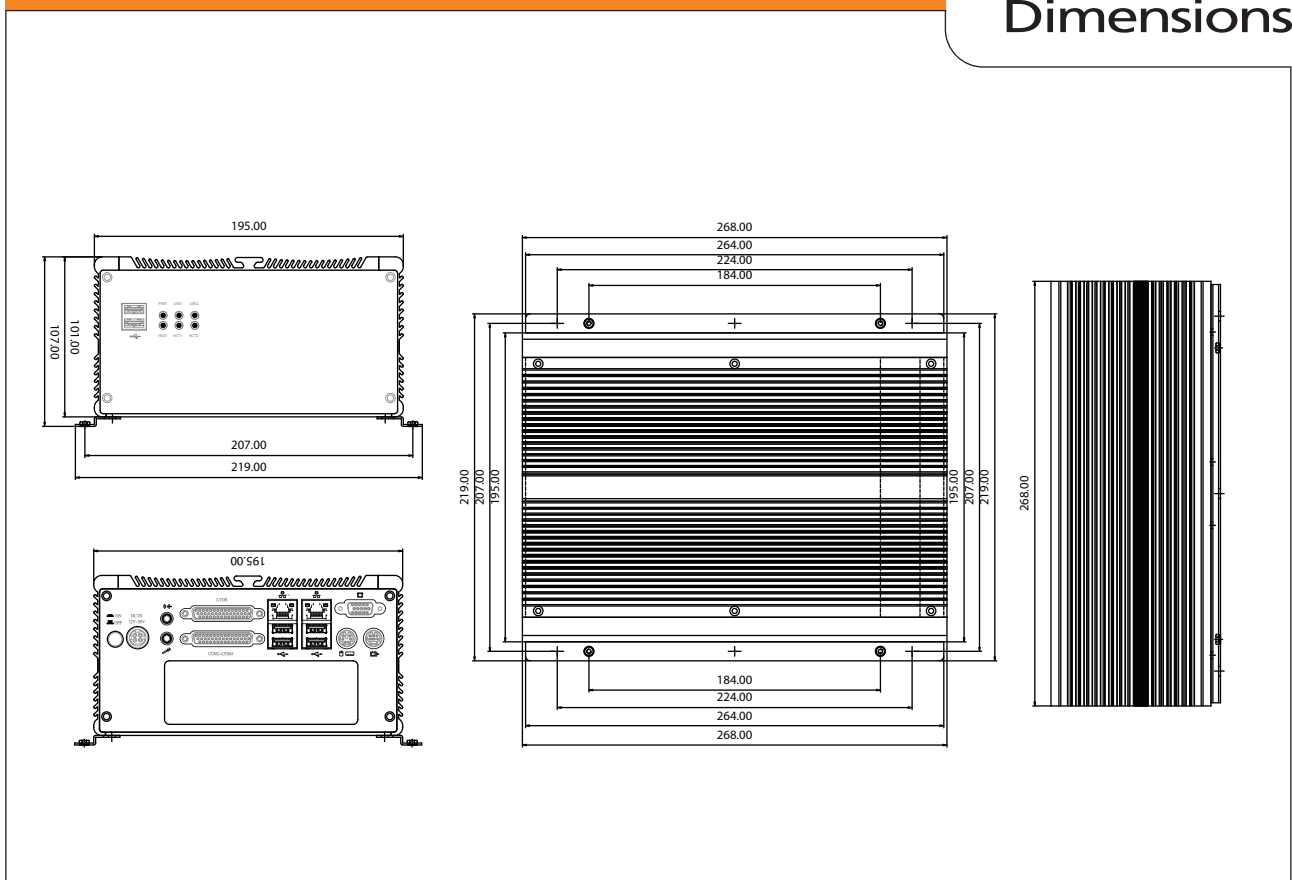
Manufactured from selected high quality industrial components, the Impact-E series is an ideal cost-effective solution for use in harsh environments and critical 24/7 operation.

Our production processes are controlled under ISO 9001:2000 and every system undergoes a full diagnostic burn-in prior to shipment.

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



Dimensions



Impact - E 50

Specifications

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.

Hardware specification	CPU: Intel Pentium M 745, 1.8GHz, 400MHz FSB, 2MB cache Main memory: 1 x 1GB 184-pin DIMM DDR 400 SDRAM Upgradeable to: Up to 2 GB Chipset: Intel 852GM and Intel 82801DB (ICH4) LAN: Intel S82551QM x 2 System monitor controller RTC: On chip with battery backup Watchdog timer: Watchdog timeout can be programmed by software from 1 second / minute to 128 seconds / minutes	External power adaptor	Power input: 100 ~ 240V AC, 2A, 50 ~ 60 Hz Power Rating: 120W Voltage output: 24V DC
Display	Intel 852GM integrated graphics solution with Intel Extreme Graphics 2 technology, up to 64 MB of dynamic video memory allocation 350MHz integrated 24-bit RAMDAC that can drive a standard progressive scan analogue monitor with pixel resolution up to 1600 x 1200 at 85Hz DB15 CRT VGA connector x 1 DB44 connector for external connection Chrontel CH7009 DVI and TV-out TV-out supports graphic resolution up to 1024 x 768 DVI output supports up to UXGA resolution DVI 12-bit Interface 34-pin box header connector x 1 RCA TV out & S-Video output 7-pin Mini-DIN for TV-out connector For S-Video TV-out interface with direct plug-in RCA type TV-out provided by an optional cable that converts the 7-pin Mini-Din to a RCA TV connector	Mechanical	Design: Rugged compact embedded design Cooling: Fanless design Construction: Heavy duty aluminium Colour: Black (custom colours available for large orders) Dimensions: 195(W) x 107(H) x 268(D) mm Packaging dimensions: 310(W) x 240(H) x 360(D) mm Gross weight: Approximately 4.7kg Packaged gross weight: Approximately 6.8kg
BIOS	Award System BIOS 4 Mbits flash ROM Plug & Play support Advanced Power Management	Environmental operational	Acoustic noise: Near silent operation Temperature: 5 to 45°C (with 2.5" HDD), 0 to 50°C (with CompactFlash card or solid state drive) Humidity: 10 to 90% at 25°C non-condensing
Storage	Western Digital 2.5" Scorpio 80 GB, ATA100, 8 MB Cache, 5400 RPM Industrial grade CompactFlash cards, solid state drives and other storage / backup solutions are available on request	Environmental storage	Temperature: -20 to 80°C Humidity: 5 to 90% at 25°C non-condensing
System expansion	2 x PCI slot, 240mm length (1 x 240mm length, 1 x 160mm length with 2.5" HDD installed) PCI V2.2 Compliant	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, 10 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 ±2kV Surge Immunity test (EN61000-4-5) Power port ac Severity ±2kV 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, 10 V/m (no modulation) 80% Modulation with 1kHz Sine wave, applied via CDN type M3 Power frequency magnetic field immunity test (EN61000-4-8) Enclosure port 50Hz, 1 A/m (RMS) 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 Voltage dips, short interrupts and voltages variations immunity tests (EN61000-6-2) Power port ac >30% Reduction, 0.5 Periods >60% Reduction, 25 Periods >100% Reduction, 250 Periods Limits for harmonic current measurement (EN 61000-3-2), Product Class D Limitation of voltage changes, voltage fluctuations and flicker (EN 61000-3-3) 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.
Supported OS (Operating System)	Windows XP Embedded, Windows XP, Linux Red Hat, Windows 2000 (available via Windows XP Pro downgrade rights) If your desired operating system is not listed, please contact us	Safety	External PSU (EN 60950), CE Marked
Interfaces	Front: 2 x USB 2.0 1 x Power (PC ON) LED 1 x Hard disk access LED 2 x LAN status LEDs (2 x link and activity status) 1 x ATX power on/off unlock switch Rear: 4 x USB 2.0 1 x 6-pin Mini-DIN for PS/2 Keyboard / Mouse 4 x Serial Ports: 1 x DB 44-pin connector broken out by cable to convert the 4 COM ports. COM 2 supports RS 232 / 422 / 485, selectable by switch. COM4 Pin-9 reserved for 12 V or 5 V output (set by jumper). 1 x Audio-out 1 x Mic-in 1 x DVI interface 2 x RJ45 10/100 Ethernet LAN 1 x VGA connector 1 x S-Video TV-out 1 x DC power input 1 x 2-pin connector for remote power on/off switch 2 x PCI slot Internal: 1 x CompactFlash socket (internal access) 1 x 2.5" hard disk drive or solid state drive	Reliability	System MTBF: >52,678 hrs (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. Four hour burn-in diagnostic run on every system
Main board internal interface details (Not available on the chassis panels)	On-board pin header for IrDA Tx - Rx Digital I/O: 4-bit TTL input, 4-bit TTL output (TTL level: 0 - 5V) 2 x ports reserved by JST connector near front panel (shared signals) SM-bus, I2C Pin header On-board buzzer		
Main board power input details	Supports DC input voltage from +12 V to + 30 V DC (120W maximum) Power input connector: Mini-DIN 4-pin power connector Reserved ATX function for remote power on / off control		

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