

# Impact-E 42



## Features

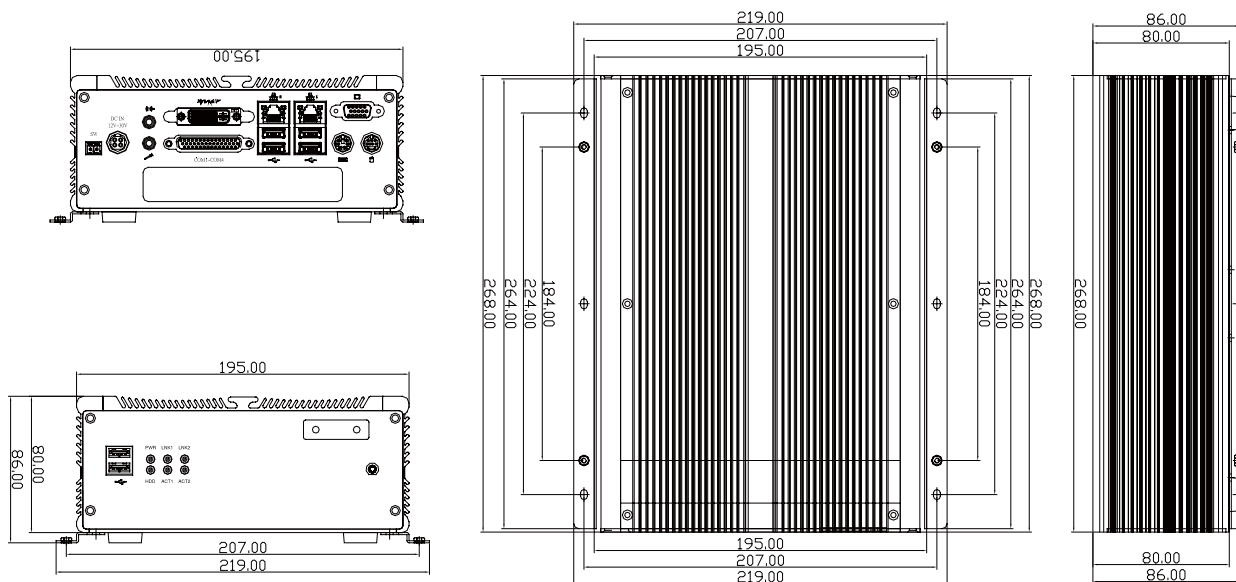
The compact fanless rugged design of the Impact-E is ideally suited to a variety of space critical embedded applications. With Intel Core Duo support, this system can provide the performance necessary for high speed and intensive tasks.

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 42

## 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	<p>CPU options: Intel Core Duo M T2500, 2.0GHz, 667MHz FSB, 2MB cache or Intel Celeron M 440, 1.86GHz, 533MHz FSB, 1MB cache                  Main memory: 1 x 1GB 240-pin DIMM DDR2 667 SDRAM                  Upgradeable to: Up to 3 GB                  Chipset: Intel 945GME and Intel 82801 GBM (ICH7-M)                  LAN: Marvell 88E8053 Gigabit LAN x 2                  Watchdog timer: Watchdog timeout can be programmed by software from 1second / minute to 128 seconds / minutes                  RTC: On chip with battery backup</p>	Mechanical	<p>Design: Rugged compact embedded design                  Cooling: Fanless design                  Construction: Heavy duty aluminium                  Colour: Black (custom colours available for large orders)                  Dimensions: 195(W) x 80(H) x 268(D) mm                  Packaging dimensions: 310(W) x 240(H) x 360(D) mm                  Gross weight: Approximately 4.4kg                  Packaged gross weight: Approximately 6.5kg</p>
Display	<p>Intel 945GME integrated graphics memory controller hub (GMCH)                  DB15 CRT VGA connector x 1                  DVI-D 12-bit Chromtel 7307 Interface connector x 1</p>	Environmental operational	<p>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</p>
BIOS	<p>Award System BIOS                  4 Mbits flash ROM                  Plug &amp; Play support                  Advanced Power Management</p>	Environmental storage	<p>Temperature: -20 to 80°C                  Humidity: 5 to 90% at 25°C non-condensing</p>
System options	<p>Impact-E 42 - 160GB: With 160GB Rugged HDD, 1GB RAM                  Impact-E 42 - 8GB: With 8GB Solid state drive, 1GB RAM</p>	<p>Electromagnetic compatibility (EMC)</p> <p>EN55022 Class A                  EN55024 Industrial severity (where applicable)</p> <p>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</p> <p>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</p> <p>Electrical fast transient/burst immunity test (EN61000-4-4)                  Power port ac, inc. protective earth                  Severity ±1kV</p> <p>Surge Immunity test (EN61000-4-5)                  Power port ac                  Severity ±1kV applied line to line                  Severity ±2kV applied line to earth</p> <p>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</p> <p>Voltage dips, short interrupts and voltages variations immunity tests (EN61000-4-11)                  Power port ac                  &gt;95% Reduction, 0.5 Periods                  &gt;30% Reduction, 25 Periods                  &gt;95% Reduction, 250 Periods</p> <p>FCC                  Tested for compliance to 47 CFR, Part 2, Part 15 Subpart B:2005</p> <p>Amplicon own a fully equipped EMC facility and can provide many additional tests to meet your requirements.</p>	
Storage	<p>Larger capacity hard drives, industrial grade CompactFlash cards or 2.5" solid state drives available</p>		
System expansion	<p>1 x PCI slot (1 x 160mm length with 2.5" HDD installed, or 240mm without 2.5" HDD installed)                  PCI V2.2 Compliant                  (Maximum Expansion Power 7W)</p> <p>NB: The Impact-E 42 does not support -12V PCI cards as standard. For this support a '-12V PCI card module' is required.</p>		
Supported OS (Operating System)	<p>Windows Vista, Windows XP Embedded, Windows XP, Windows 2000 (available via Windows XP Pro downgrade rights), Windows 7, Linux Red Hat                  If your desired operating system is not listed, please contact us</p>		
Interfaces	<p>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</p> <p>Rear:                  4 x USB 2.0                  1 x 6-pin Mini-DIN for PS/2 Keyboard                  1 x 6-pin Mini-DIN for PS/2 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).</p> <p>1 x Audio-out                  1 x Mic-in                  1 x DVI-D interface                  2 x RJ45 10/100/1000 Ethernet LAN                  1 x VGA connector                  1 x DC power input                  1 x 2-pin connector for remote power on/off switch                  1 x PCI slot</p> <p>Internal:                  1 x CompactFlash socket (internal access)                  1 x 2.5" hard disk drive or solid state drive (SATA interface)</p>		
Main board internal interface details (Not available on the chassis panels)	<p>On-board pin header for IrDA Tx - Rx                  Digital I/O: 4-bit TTL input, 4-bit TTL output (TTL level: 0 - 5V)                  On-board buzzer</p>		
Main board power input details	<p>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</p>		
External power adaptor	<p>Power input: 100 – 240V AC, 2A, 50 – 60 Hz                  Power Rating: 120W                  Voltage output: 19V DC</p>		

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