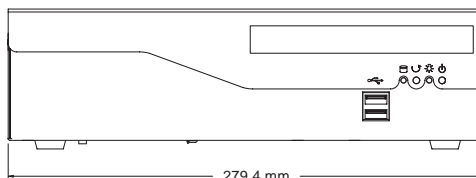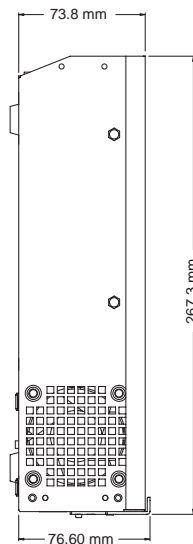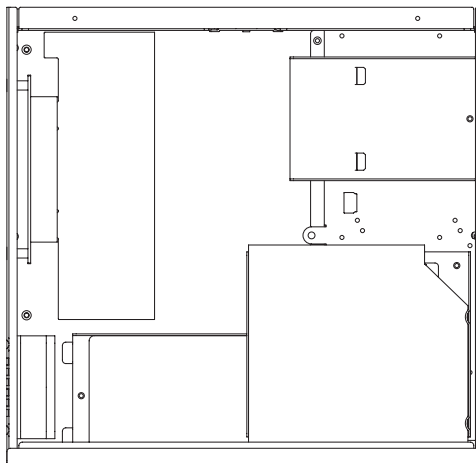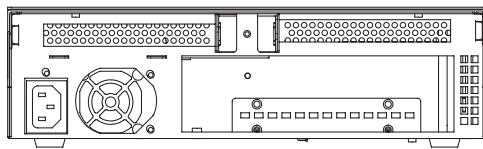# Impact-R 155F

Features

The Impact-R 155F uses an industrial Mini-ITX
Motherboard powered by an Intel Atom D2550
1.86Ghz Dual Core 64bit CPU.
2GB DDR3 Memory upgradable to 4GB
32GB SSD (SLC) fitted as standard
Fan-less and silent with no moving parts and
12VDC power. This Industrial PC provides excellent
performance in a compact industrial case. These
systems are suited to data logging, mobile
communications, digital signage, networking and
embedded, applications.

Systems can be tailored to meet your exact requirements.
Each system comes with a 3 year warranty.
Our production processes are controlled under
ISO 9001:2008.   Every system undergoes a full diagnostic
burn-in prior to shipment.

Dimensions

73.8 mm

267.3 mm

76.60 mm

279.4 mm

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Impact-R 155F

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	Intel® Atom™ Dual-Core D2550/ 1.86GHz processor Intel® NM10 Express chipset Dual 204-pins DDR3 SO-DIMMs support max. 4GB SDRAM memory Support VGA/ HDMI, VGA/ LVDS or HDMI/ LVDS dual displays 6x USB, 4x COM, 2x GbE, 2x SATA, 1x LPT, 1x PCI Audio Mic-in/ Line- out, (internal Line-in) 2x Mini-PCIe (1x full/ SIM tray, 1x half-size) Single DC +12V input by AT/ ATX mode
BIOS	AMI BIOS Plug & Play support Advanced Power Management Advanced Configuration & Power Interface 16M bits SPI ROM
Storage	2.5" 32GB SSD (SLC) DVD drive
System expansion	2 x Mini-PCIe (1x full-size/ SIM tray and 1x half-size slots) 1 x PCI slot (32bit/ 33Mhz)
System architecture	Industrial Mini-ITX form factor motherboard
Supported OS	Windows XP 32 bit Windows 7 32 bit
I/O interfaces	Serial port: 4 ports COM1, RS232 by DB-9 male on edge I/O COM2, 3, 4 ports, support 3x RS232 by three 2x 5-pins box-headers 2 x SATA 2.0 ports 2 x 4-pins power connectors for SATA/ HDD USB 2.0: 8 ports 4x ports by 2x dual stack USB2.0 on edge I/O (port 0~ 3) 2x ports by 2x 5-pins header pitch 2.54mm (port 4~ 5) 2x ports to mini-PCIe slots (port 6, 7) 2x 5-pins header for Power LED and HDD Active LED/ Reset/ Power On-Off 2 x 4-pins fan connector (for CPU and system) 1x 5-pins pin-headers IrDA (Tx/Rx) and 1x 4-pins pin-header for SMbus 1x 7-pins box header for backlight power/ enable/ b rightness control by PWM 2x 13-pins box-header for legacy parallel port/ LPT
External interfaces	1 x 5-pins AT power connectors for DC + 12V input 1 x dual stack PS2 for Keyboard/ Mouse 1 x dual stack DB9 male for COM1 + DB15 female VGA 1 x HDMI connector 2 x RJ45 LAN + dual stack USB connectors 1 x Mic-in/ 1 x Line-out Jack
On-board LAN	2 x Realtek 81111E PCI Express Gigabit Ethernet Support Boot From LAN (PXE) 2 x RJ45 with LEDs build-in 2x dual stackable USB type A connectors on edge I/O.
Display	Intel® Atom™ processor D2550 integrated 3D graphics engine SGX545 Analog VGA interface: 1 x VGA by DB15 connector resolution up to 1920x1200 75Hz HDMI interface: 1 x HDMI connector resolution up to 1920x1200 LVDS interface: Single (24-bit) LVDS panel, resolution up to 1 440 x 900 by DF13 20-pin LVDS connector Inverter (LVDS panel backlight) interface: 1 x 7-pins box header for Inverter/ backlight enable/ brightness control by PWM
Watchdog Timer	Watchdog timeout can be programmable by Software from 1 second to 255 seconds and from 1 minute to 255 minutes (Tolerance 15% under room temperature 25°C)
Mechanical	Design: Compact desktop / wallmount (brackets supplied) Construction: Heavy duty cold rolled electroplated steel Colour: Black / Silver (custom colours available for large orders) Dimensions: 279 x 75 x 269mm (11.0" x 3.0" x 10.6") Packaging size: 375 (W) x 365 (H) x 190(D) mm (14.8" x 14.4" x 7.5") Gross weight: approximately 4kg
Environment	Operating temperatures: 0°C to 60°C Storage temperature: -20°C to 85°C Relative humidity: Operating 10% to 90%, non-condensing

System Monitor	Monitoring of 4 voltages and 2 temperatures 4 Voltage (Vcore, +12V , +3.3V , 5V) 2 Temperatures (CPU, System) 2 Fans Speed detection
On-board RTC	On-chip RTC with battery backup 1 x External Li-Ion battery/ CR2032
Power Input	Support AT and ATX mode (2x 2pins) by jumper settin g
Power requirements	Power requirement: DC +12V Input 1x 5-pins AT power connector on edge I/O, One 2x2-pins ATX power connector
Electromagnetic compatibility (EMC)	EN55022 Class A EN55024 Industrial severity (where applicable) Amplicon own a fully equipped EMC facility and can provide many additional tests to meet your requirements.

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