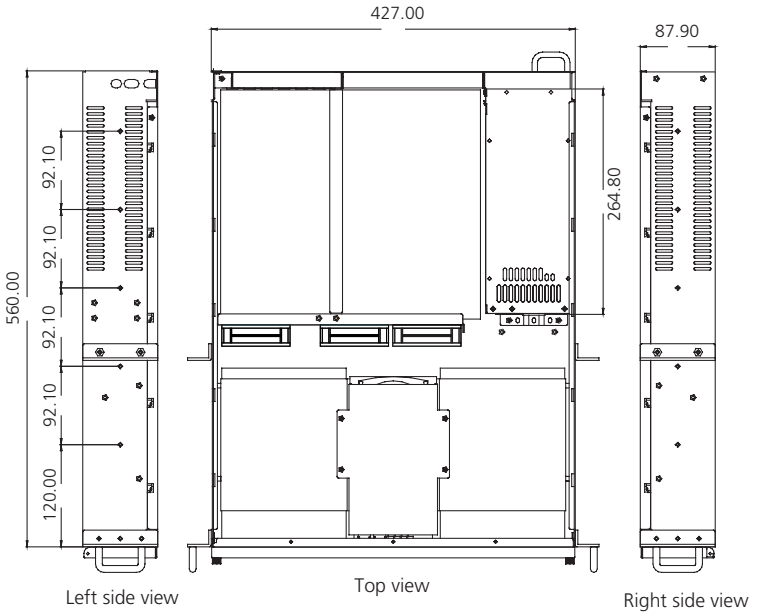
Impact-R 2020 Rail

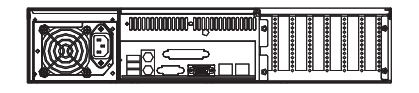
Features

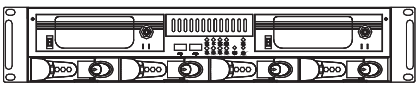
The Impact-R 2020 Rail industrial computer has been specifically designed for rail applications and has been independently certified to sections of the following rail standards EN 50155:2007 and EN 50121-4:2006 Powered by the latest Intel Core i5 processor, the system features iAMT 6.0 remote support.

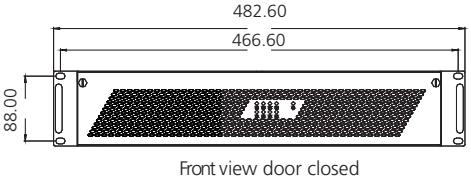
Excellent processing performance and hot-swap storage makes this an ideal choice for rail server requirements.

Dimensions




Rear view


Front view door open



Front view door closed

Configuration shown is for illustration purposes only

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Specifications

Hardware specification	CPU : Intel Core i5 660, 3.33GHz, 4MB Cache Chipset : Intel Q57 Main Memory : 2 x 2GB DDR3 1333Mhz 240pin Upgradeable to : 16GB Video : Intel Graphics Processing Unit - Supports 3D,2D, and Video Audio : Realtek ALC262 2 Channel High Definition Audio LAN : Realtek 10/100/1000 LAN Chip Intel 10/100/1000 LAN Chip SATA : 6 x SATA II (3.0Gb/s) channels DVDRW
System options	Impact-R 2020 Rail : 2U System with 1CPU, supports upto 4 HDDs
Disk capacity	Up to 3 x RAID Edition SATA II HDD 7200rpm Maximum storage 6 TB using 2TB HDDs 2 x 250GB RAID 1 for Operating System Usable storage capacity will be less due to industry drive specifications.
System expansion	1 x PCI Express x 16 (Low profile) 1 x PCI Express x 4 (Low profile) 2 x PCI Express x 1 (Low profile) 3 x PCI 33MHz (Low profile)
System architecture	Industrail roadmapped motherboard
Supported OS (Operating System)	Windows XP 32/64Bit, Windows Vista 32/64Bit, Windows 7 32/64Bit, Windows Server 2003 If your desired operating system is not listed, please contact us
LEDs and switches	Front: Power (PC ON) LED Hard disk access LED x 4 LAN activity Drive caddy HDD activity x 4 ATX system control switch, system reset
Internal interfaces	4 x Connectors for 8 additional external USB 2.0 Ports 2 x Connectors for 2 external COM Ports 1 x Front Audio Connector for Line-In 1 x CD-in Internal audio Connector 1 x 8 bits Digital I/O Connector 6 x Serial ATA connectors 1 x Front Panel Connector 1 x Chassis Intrusion Connector
External interfaces	1 x Mini-DIN-6 PS/2 mouse port 1 x Mini-DIN-6 PS/2 keyboard port 1 x DVI-I port (DVI-D signal only) 1 x VGA port 2 x COM Ports 2 x RJ45 LAN Ports 4 x USB Ports MIC-In, Line-In and Line-Out jacks
Mechanical	Design: EIA RS-310C 19" Rackmount Standard Construction: Heavy duty cold rolled electroplated steel Colour: Black (custom colours available for large orders) Dimensions: 483 (W) x 88 (H) x 560 (D) mm (19.0" x 3.5" x 22.1") Packaging size: 570 (W) x 220 (H) x 735 (D) mm (22.4" x 8.7" x 28.9") Total drive capacity: 2 x 5.25" external, 1 x 3.5" external, 4 x hot-swap 3.5" SATA bays Cooling : Industrial fans 3 x 80mm (42.5 CFM each) Gross weight: approximately 20kg (fully populated)
Environmental operational	Acoustic noise: Approximately 50dBA sound pressure at 23ºC (typical) Temperature: 0 to 45ºC Humidity: 5 to 90% at 25ºC non-condensing
Environmental storage	Temperature: -20 to 65ºC Humidity: 5 to 95% at 25ºC non-condensing

Certification	Environmental EN 50155 : 2007 , 12.2.3 The following test was required by specification : EN 60068-2-1 Test Ad, 0°C EN 50155 : 2007 , 12.2.4 The following test was required by specification : EN 60068-2-2 Test Bd, 45° C EN 50155 : 2007 , 12.2.5 The following test was required by specification : EN 60068-2-30 Test Db, 45°C/93% rh and 25° C/95% rh EN 60068-2-78 The following test was required by specification : EN 60068-2-78 Test Cab, 40°C EMC EN 50121-4 : 2006 EN 61000-6-4 : 2007 Radiated Emissions (Enclosure Port)* Conducted Emissions (AC Power Port)* * Meets requirements of EN 61000-6-3 : 2007 EN 61000-4-3 : 2006 Immunity to Radio Frequency Electromagnetic Field. Amplitude Modulated (Enclosure Port) 80 - 1000MHz 80% Mod @ 1KHz, 10V/m 0.8 - 1.0GHz 80% Mod @ 1KHz, 20V/m 1.4 - 2.1GHz 80% Mod @ 1KHz, 10V/m 2.1 - 2.5GHz 80% Mod @ 1KHz, 5V/m Immunity to Radio Frequency Electromagnetic Field from Digital Mobile Telephones (Enclosure Port) EN 61000-4-2 : 2009 Immunity to Electrostatic Discharge (Enclosure Port) EN 50121-4, Table 1 Clause 1.4 EN 61000-4-6 : 2009 Immunity to Radio Frequency Common Mode (I/O Port) EN 50121-4, Table 2 Clause 2.1 (LAN Port) Immunity to Radio Frequency Common Mode (AC Power Port) EN 50121-4, Table 4 Clause 4.1 EN 61000-4-4 : 2004 + C1 : 2006 + C2 : 2007 Immunity to Fast Transients (I/O Port - LAN) EN 50121-4, Table 2 Clause 2.2 Immunity to Fast Transients (AC Power Port) EN 50121-4, Table 4 Clause 4.1 EN 61000-4-5 : 2006 Immunity to Surges (I/O Port - LAN) EN 50121-4, Table 2 Clause 2.3 Immunity to Surges (AC Power Port) EN 50121-4, Table 4 Clause 4.3
Safety	Safety of information technology equipment (EN 60950) CE Marked
Electrical Ratings	Voltage: 90 ~ 264 VAC full range Frequency: 47 ~ 63Hz Inrush current: 55A / 110A (115 / 230VAC) PSU maximum secondary loading: 460W Active PFC EMI noise filter Over power / voltage / current protection Short circuit protection
Reliability	System MTBF: Critical components failure >45,000 hrs @ 25°C Full burn-in diagnostic run on every system

06-08-09

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