

RCC-415

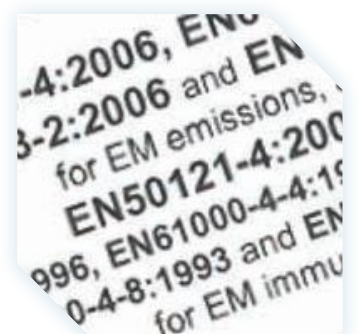
1U RAIL-CERTIFIED COMPUTER

KEY BENEFITS

- ▶ EN 50121-4:2006 certification for surface and underground applications, including trackside to three metres
- ▶ Redundancy features for high availability in mission critical applications
- ▶ Powered by Intel 7th generation embedded processors for optimal performance and system longevity
- ▶ Customisable design
- ▶ Preconfigured with your choice of operating system to streamline system rollouts
- ▶ ISO 9001 quality assured



The RCC-415 1U computer is certified to EN 50121-4:2006, making it ideal for a range of applications from surface to underground installations, including trackside approval to three metres. Harnessing the power of Intel's 7th generation processors and available in a number of configurations, the RCC-415 is supported by an extended 15 year product roadmap. With industrial components and rigorous testing to secure high availability, uptime is maximised in mission critical applications.

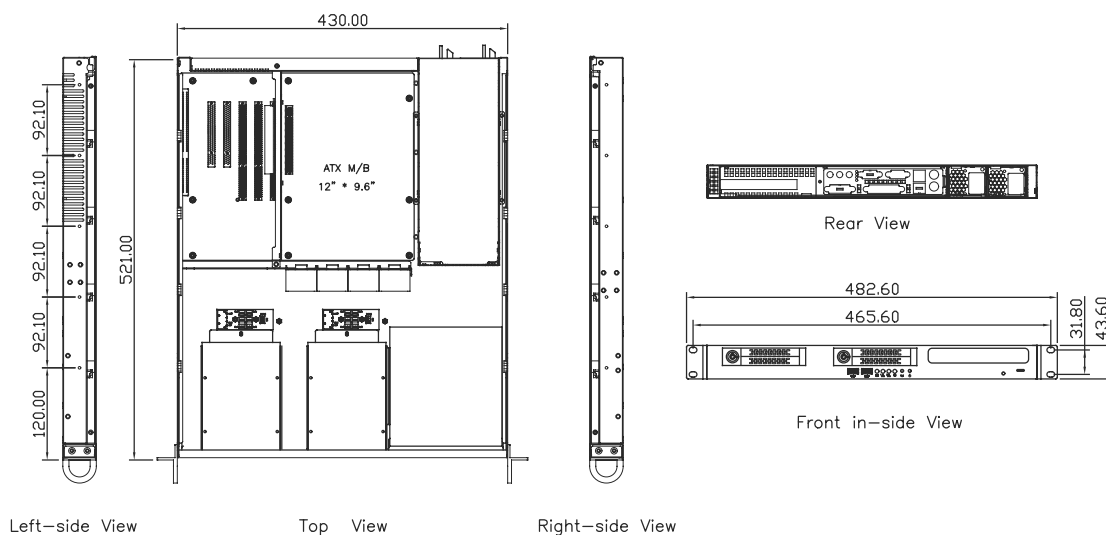


SPECIFICATIONS

RCC-415 1U Rail Certified Computer	
CPU	Intel Core i3-7101E (2 Core, 3.9GHz) Intel Core i5-7500 (4 Core, 3.4GHz) Intel Core i7-7700 (4 Core, 3.6GHz) Intel Core i3-6100 (2 Core, 3.7GHz) Intel Core i5-6500 (4 Core, 3.2GHz) Intel Core i7-6700 (4 Core, 3.4GHz)
Chipset	Intel Q170 Express
Memory	Up to 64GB DDR4 2400MHz UDIMM
Graphics	Intel HD Graphics 630
Expansion	1 full height slot
LAN	1 x Intel I210 / 1 x Intel I219LM
Storage	4 x 2.5" hot swap HDD or SSD supporting RAID 0,1,5,10
Video	1 x VGA (DSub) / 3 x display port (supports three displays)
Front I/O	Power Switch, Reset Switch, Power LED 2 x USB 2.0, 2 x LAN activity LED, 1 x HDD activity LED
Rear I/O	2 x RS232/422/485, 4 x USB 3.0 2 x LAN, Audio, PS/2 Combo
Audio	Mic-in, line-in, line-out
Operating System	Microsoft Windows 7 / Windows 8 / Windows 10 / Windows Server 20xx / Linux / VMWare (configuration support optional)
Power Supply	Redundant 1+1 400W hot swap power supply
Power Supply Ratings	Input voltage: 100-240VAC Input rating: 47~63Hz Input current: 7.0A for 115VAC, 3.0 for 230VAC Inrush current: 35A for 115VAC, 70A for 230VAC (per module)
Operating Temp.	0°C to 45°C
Dimensions	427mm x 44mm x 521mm (19" rack mount)
Weight	13.8KG (Gross)
Cooling	4 x 40mm fans
DVD	SATA DVDRW
Reliability	Critical components failure >45,000 hrs @ 25°C 12 hour burn-in testing performed on every system
Expected Discontinuance	Q3 2030

Certification	
CE, EN 50121-4:2006, EMC	
Radiated Emissions / EN61000-6-4, EN55032 Enclosure - 30MHz – 230MHz / 40dBuV/m Enclosure - 230MHz – 1GHz / 47dBuV/m	
Conducted Emissions / EN61000-6-4, EN55032, EN61000-3-2, EN61000-3-3 AC power lines - 15kHz – 500kHz / 79dBuV/m QP / 66dBuV/m Av AC power lines - 500kHz – 5MHz / 79dBuV/m QP / 66dBuV/m Av AC power lines - 5MHz – 30MHz / 79dBuV/m QP / 66dBuV/m Av AC power lines – Harmonics / 0Hz – 2kHz AC power lines – Flicker / 0Hz – 2kHz AC power lines – Inrush Current / 0Hz – 2kHz	
Transient Bursts / EN61000-4-4 AC power - 2kV I/O Ports – 2kV	
Surge / EN61000-4-5 Line to Earth – 2kV Line to Line – 1kV	
Conducted Immunity / EN61000-4-6 RF - AC Power - 10V rms, 1kHz, 80% AM modulation RF - I/O ports - 10V rms, 1kHz, 80% AM modulation RF - Earth ports - 10V rms, 1kHz, 80% AM modulation	
Radiated Immunity / EN61000-4-3 RF (AM) - 80MHz – 1GHz, 10V/m 1kHz, 80% AM RF (PM) - 80MHz – 1GHz, 20V/m 1kHz, 80% AM RF (PM) - 1.4GHz – 2.1GHz, 10V/m 1kHz, 80% AM RF (PM) - 2.1GHz – 2.5GHz, 5V/m 1kHz, 80% AM RF (PM) - 80MHz – 1GHz, 10V/m 1kHz, 80% AM	
Magnetic Field Immunity / EN61000-4-8 100A/m rms, at 50Hz	
Pulse Magnetic Field Immunity / EN61000-4-9 300A/m	
ESD Immunity / EN61000-4-9 6kV contact 8kV air	
Electrical Safety EN 60950-1 2.6.3.4 EN 60950-1 5.2 EN 60950-1 5.1 EN 60950-1 2.9 EN 60950-1 4.5	

TECHNICAL DETAILS



E&OE. Captec reserves the right to change specifications without notice.

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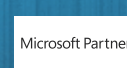
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