



RCC-425

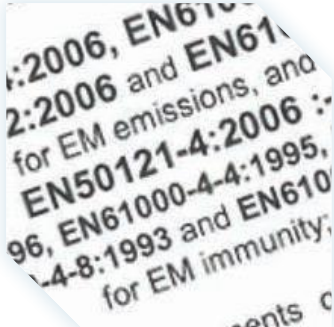
2U RAIL-CERTIFIED COMPUTER

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
- ▶ Support for PCI and PCI Express expansion card options
- ▶ ISO 9001 quality assured



The RCC-425 2U 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-425 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.

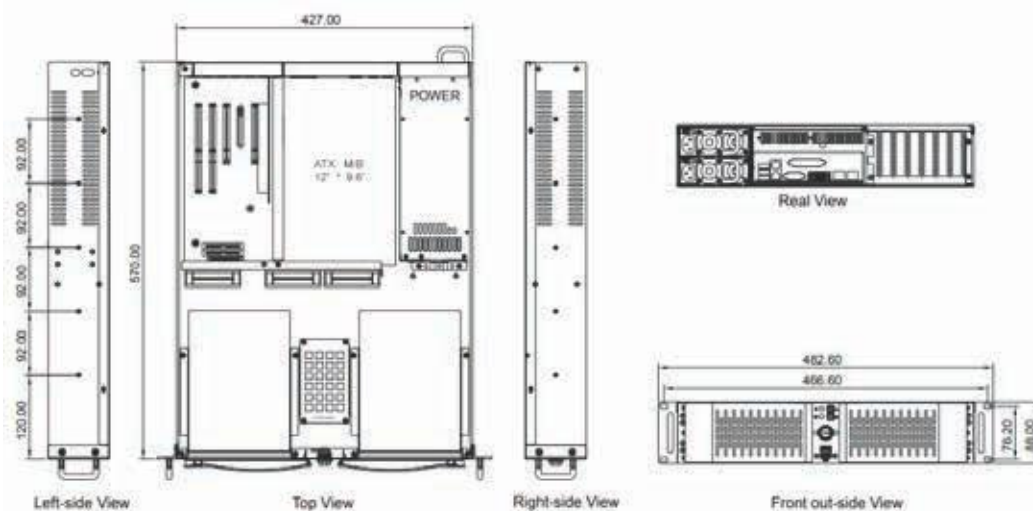


SPECIFICATIONS

| RCC-425 | 2U 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 |
| Expansion | 7 low profile slots:, 1 x PCIe x16 (PCIe 3.0 support), 1 x PCIe x1, 1 x PCIe x8, 1 x PCIe x4, 3 x PCI |
| 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 Optional 2 x 3.5" HDD CADDY |
| 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, 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 500W hot swap power supply |
| Power Supply Ratings | Input voltage: 100-240VAC Input rating: 47~63Hz Input current: 8.0A for 115VAC, 4.0 for 230VAC Inrush current: 60A for 115VAC, 80A 230VAC (per module) |
| Operating Temp. | 0°C to 45°C |
| Dimensions | 427mm x 88mm x 570mm (19" rack mount) |
| Weight | 17.5KG (Gross) |
| Cooling | 3 x 80mm fans |
| DVD | SATA DVDRW |
| Reliability | Critical components failure >45,000 hours MTBF at 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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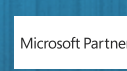
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