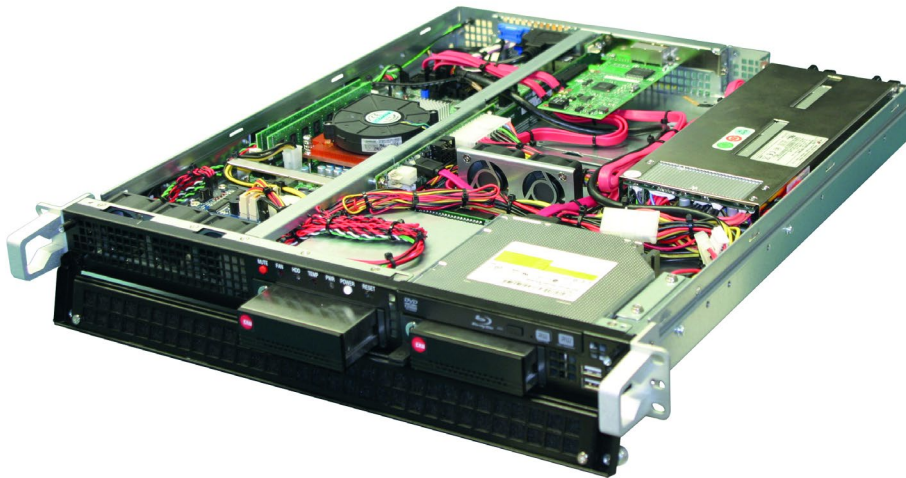


RM191 1U Rugged Industrial Server



www.animalsystems.co.uk



- Industrial 1U Server
- Intel i3,i5,i7, ATOM and XEON options
- 1U Low Depth Compact Chassis
- AC/DC Options
110VDC/110VAC/230VAC/12VDC/24VDC
- Shock and Vibration Tolerant
- Extended Temperature options
- Front Removable Disk Drives x4
- Low Power Consumption with ATOM

Animal System's RM191 Rugged 1U Server is designed for use in high and low temperature environments that are subject to shock and vibration. Our range of Rugged Servers are ideal for use in industrial environments including military COTS use where space is at a premium.

The RM191 uses SBC technology using the performance Intel® Multi-Core Xeon processor and 6th/7th Gen i7/i5/i3 processors in a single rugged 1U low depth chassis, with a variety of power supply options and removable disk drives for HDD or SSD in two removable caddies.

A typical specification provides :

- 6th/7th Gen Intel Core i7/i5/i3 processor plus XEON option
- One or two removable SSD's per removable drive. 4x Total RAID Option
- Up to 32GB DDR4 2400MHz memory
- iAMT 11 and SEMA support with BMC
- Optional TPM Infineon SLB 9665XT2.0
- Front door access life time cleanable dust filters
- Serial port, 2x LAN, VGA, 2x USB 3.0
- Watchdog Timer
- Automatic electronic temperature dependent fan speed controller ensure high airflow at elevated operating temperatures and extend long term reliability
- Multiple fans ensure high airflow from front to rear.

The removable disk carriers are front mounted behind The filtered front door, front dust filtering protects from environmental contamination. Solid State (SSD) disk drives are recommended for wider operating temperature or high operating vibration environments.

Animal Systems also offer a full range of military specification test and verification services to provide independent fully certified testing to environmental, EMC and EMI standards.

Server

Storage

Options for one, two removable 2.5" disk drives. 2x 2.5" drives in each bay giving 4x in total. Onboard RAID Serial ATA ports with data transfer rates of up to 6.0 GB/s. Intel® Rapid Storage Technology supports AHCI and RAID 0/1/5/10 functionality. One front access USB ports may also be used to connect temporary additional storage such as external disk or CD/DVD.

Environment

Operating:

Temperature Range :

Standard 0°C to +55°C

Extended* -10°C to +65°C

Humidity : 10 to 95% non-Condensing*

Vibration : 1G / 2G+ with solid state disks 10Hz to 500Hz

Shock: 15G / 30 mSec V 10G 45ms H

Non-Operating* :

Storage Temperature -45°C to +80°C*

Humidity : 10 to 95% non-Condensing*

Vibration : up to ~4G 5Hz to 500Hz Shock :
40G / 11mSec

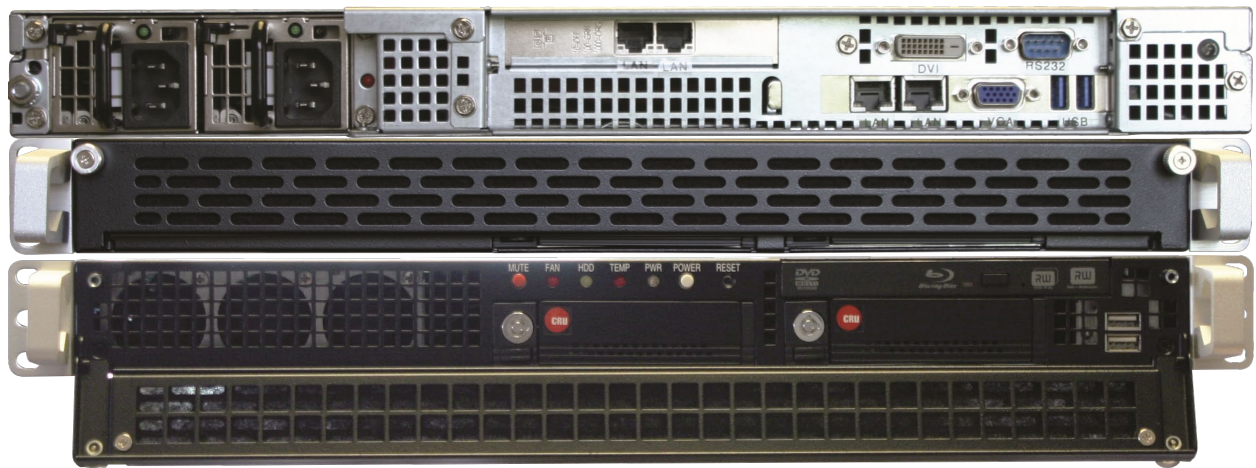
Power Supply

Various industrial options for power. Single and redundant AC110/230V

Single -48VDC, 24VDC, 12VDC, 100VDC , 110/230VAC

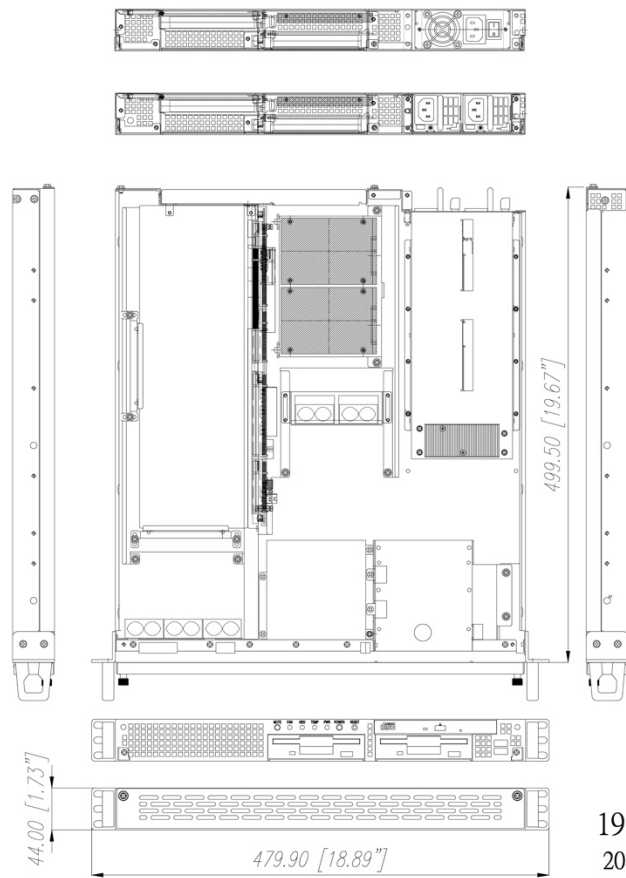
Standard Config 24VDC

- Nominal Input Voltage Range INPUT CURRENT: 18-36VDC / 33-16AMP (26A AT 24VDC)
- INRUSH CURRENT: 50A@ 24VDC
- (AT 25 DEGREES AMBIENT COLD START)
 - HOLD UP TIME: 1.6mS MINIMUM AT 24V FULL LOAD
 - EFFICIENCY: >80% TYPICAL AT 24V FULL LOAD
 - POWER GOOD SIGNAL: ON DELAY 100 ms TO 500 ms
 - OVER POWER PROTECTION: 110~150%
 - OVER VOLTAGE PROTECTION: +5V→5.6~6.5V, +3.3V→3.6~4.3V, +12V→13.2~15V
 - SHORT CIRCUIT PROTECTION: +5V, +3.3V, +12V, -12V, +5VSB
 - OVER CURRENT PROTECTOIN: +3.3V→27.5~37.5A, +5V→27.5~37.5A, +12V→36.3~49.5A
 - SAFETY: TO MEET UL, TUV, CB



Physical

- Dimensions: 479.90(W) x 44(H) x 499.5(D) mm
- Weight (Net): approximately 11Kg (depending on build options and connectors)
- CE Compliance: EEC EMC & Safety.
- RoHS Compliant
- WEEE



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Specifications subject to change without notice