



# **R-Series**

## REDD ASH PERFORMANCE

### R-46 Series

Home to the most specialized, high-performance surveillance servers. The **R-Series** offers complete turnkey surveillance solutions for some of the world's most exciting theme parks, casinos and other challenging environments.

### Powerful Performance

**R-Series** performance has withstood over 40,000 hours for real world surveillance testing in extremely difficult scenarios. Our customers, disappointed with off-the-shelf “surveillance servers”, demand 30 to 60 frames per second and data storage for 90 days or more.

### Customized Approach

Instead of the one-size-fits-all approach the R-Series offers R16, R28, R46 & R47 all customized and tested specifically for Onssi, Genetec, Milestone, IndigoVision, Avigilon, and many more enterprise class VMS.

### Versatile

As camera manufacturers increase resolution, improve artificial intelligence, and video analytics, ongoing research and development at Redd Ash Lab ensures customizes, futureproof solutions. Our servers are also designed for modular upgrades as needed.

### Guaranteed Performance

Redd Ash guarantees the design and performance of the system for throughput and storage based on the camera selection and configuration(s). Design engineers certify a robust server design with futureproof performance to guarantee desired system performance. The performance guarantee will be based on the documented throughput and storage capacity requirements calculated, and stated in our specifications.

### Ocularis Appliance

- Built on the award winning SUPERMICRO server platform
- Up to 20 concurrent Ocularis client connections
- Guaranteed Performance up to 6 Gbps Throughput
- Multiple enterprise class RAID arrays custom configured and optimized for Ocularis usage
- 36 x 3.5" SAS/SATA Hot-swap Drive Bays
- Redundant 1100W (1+1) high-efficiency power supply
- Three years advance replacement warranty

Feature	Technical Specification	
<b>Form Factor</b>	4U Rackmount	
<b>Dimensions and Weight</b>	HxWxD – 7"x17.2"x26" (178mmx437mmx660mm) Gross Weight – 80lbs (34.0kg)	
<b>Processor</b>	Dual Xeon CPU Sockets Supports Six-Core/Quad-Core Intel® Xeon® Processors	
<b>Memory</b>	6x 240-pin DIMM sockets Supports up to 48GB 1333/ 1066/ 800MHz DDR3 ECC Registered memory, or up to 24GB 1333/ 1066/ 800MHz DDR3 ECC Un-Buffered SDRAM Three Channel Memory Bus Error Detection – Corrects single bit errors, Detects double bit errors (using ECC memory) and Supports Intel® SDCC	
<b>On-Board Devices</b>	Intel® 5500 Tylersburg chipset Intel ICH10R SATA 3.0Gbps Controller - RAID 0, 1, 5, 10 support for Windows, RAID 0, 1, 10 support for Linux 2x Intel® 82574L Gigabit Ethernet Controllers; supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output Matrox G200eW Graphics Super I/O – Winbond 83827HF chip	
<b>Health Monitoring</b>	Monitors for CPU Cores, +1.8V, +3.3V, +5V, ±12V, +3.3V Standby, +5V Standby, HT, Memory, Chipset Voltages 4-Phase-switching voltage regulator Temperature monitoring for CPU and chassis environment Thermal Control for 6x fan connectors Chassis intrusion detection Total six fan headers supporting up to six fans with tachometer monitoring Low noise fan speed control	
<b>System Cooling</b>	7x 8cm Hot-swappable Cooling Fans Redundant Fans	
<b>Input/Output</b>	Optional 8 SAS/SATA ports Six Serial ATA ports supports six SATA hard drives supported 1 Floppy controller; 1.44MB 2x RJ45 LAN ports 2x USB rear ports, 1x USB on-board,	2x USB internal headers Total 5 USB 2.0 compliant 1x VGA port PS/2 keyboard and mouse ports 1 Fast UART 16550 serial port 1 Fast UART 16550 serial header (option)
<b>Power Supply</b>	1100W (1+1) Redundant high-efficiency power supply w/ PFC with 100 – 140V AC input 1400W (1+1) Redundant high-efficiency power supply w/ PFC with 180 – 240V AC input	DC Output – 1100W: +12V/92A, +5Vsb/4A; 1400W: +12V/116A, +5Vsb/4A
<b>Expansion Slots</b>	PCI-Express – 2 (x8) PCI-E 2.0 (1 in x16 slot) 1 (x4) PCI-E 2.0 (in x8 slot)	1 (x4) PCI-E (in x8 slot) PCI – 2x 33MHz PCI slots
<b>Operating Environment / Compliance</b>	RoHS Compliant Operating Temperature: 10° to 35°C (50° to 95°F) Operating Relative Humidity: 8% to 90% (non-condensing)	
<b>Model #: R46-T120 (120TB usable capacity)</b> <b>Model #: R46-T180 (200TB usable capacity)</b> <b>Model #: R47-T300 (300TB usable capacity)</b> <b>Call for Price: (407) 901-3192</b>		