

# Alcatel-Lucent VitalQIP®

QIP™ 1210-RAID Appliance

The QIP™ 1210-RAID Appliance supports the needs of the enterprise that requires a full-featured appliance coupled with high performance, dual-power supplies and lights-out management, along with hot-swappable RAID-10 disks.

The QIP 1210-RAID provides the base for the following functions:

- *AMS* (Appliance Management Software) – used to define, manage and monitor VitalQIP appliances
- *ESM* (Enterprise Server Module) – supports the VitalQIP Enterprise Software
- *AMM* (Appliance Management Module) – supports DNS, DHCP and other mission critical applications

The QIP 1210-RAID represents Alcatel-Lucent’s latest generation of rack-optimized system solutions that support the high transaction rates demanded by IP address management (IPAM) and Domain Name Server/Dynamic Host Configuration Protocol (DNS/DHCP) applications. The QIP 1210-RAID is a high-performance, 1-socket 1U rack server with the right computing power, business scalability, simplified management, data protection and security features to make it an ideal choice for all Enterprise and Carrier customers. The RAID-10 disk array provides 1TB of highly protected disk space, implemented with disk mirroring and striping for excellent redundancy and performance.



FEATURES	BENEFITS
One source for both the hardware and software	Simplifies support issues since one source (Alcatel-Lucent) addresses service needs
Balanced server platforms based on quad-core Intel Xeon processors	Exceptional performance from having balanced servers
“Green” quad-core processing	Increases server performance by quadrupling processing ability on a single chip without increasing power consumption
“Fresh Air” environmental compliancy	Enables appliance to operate at extended temperature and humidity ranges allowing for lower overall data center costs
Dual independent bus architecture	Enables dedicated data flow to each processor, maximizing system performance
64-bit architecture	Extends the amount of server memory available
Dual-power supplies	Reduces downtime attributable to power outages
Lights-Out management	Provides remote access to appliance to quickly determine status and restore operation if necessary
RAID-10 Disks	Excellent data protection and performance (best RAID option for mission critical applications)

## Technical specifications

### VitalQIP functions supported

- AMS (Appliance Management Software)
- VitalQIP Enterprise Services
- Enterprise High Availability
- Sybase
- DNS/DHCP
- TFTP, NTP, SNMP
- Anycast DNS
- DNS High Availability
- DNS/DHCP Test Probes
- Others

### CPU

- Intel Xeon E5-1410 Quad-Code 64-bit 2.8 GHz (8 logical cores)

### Memory

- 12 GB 1333MHz ECC DDR3

### Hard disk

- (4) 500 GB 3.5 inch SATA (7.2K RPM)
- RAID-10 Configuration (1 TB protected space)
- Hot-pluggable disks

### System bus speed

- 1333 MHz

### Form factor

- 1U

### Dimensions

- Height: 1.67 in. (4.3 cm)
- Width: 17.10 in. (43.4 cm)
- Depth: 26.60 in. (67.7 cm) inc. PSU and bezel

### Weight (without racks)

- 33.0 lbs (15.0 kg)

### Mounting racks: included

### Mean Time Between Critical Failure (MTBCF)

- 125,700 hours

### Power supply

- Dual hot-plug redundant 350W

### Power consumption

- Maximum: 350W
- I/O Intensive: 102W
- CPU Intensive: 154W
- Memory Intensive: 98W

### Voltage

- 110/220 AC automatic switching

### Thermal load

- I/O Intensive: 348 BTU/hour
- CPU Intensive: 525 BTU/hour
- Memory Intensive: 334 BTU/hour

### Environment

- Ambient operating temp: 10°C to 35°C (50°F to 95°F)
- Ambient non-operating (storage) temp: -40°C to 65°C (-40°F to 149°F)
- Extended operating temp: 5-10°C, 35-40°C (≤ 10% annually), -5-5°C, 40-45°C (≤ 1% annually)
- Operating relative humidity: 10% to 80%, non-condensing
- Non-operating relative humidity: 5% to 95%, non-condensing
- Extended operating humidity: 5-85% (≤ 10% annually), 5-90% (≤ 1% annually)

### System cooling

- Five fixed cooling blowers

### External I/O ports

- Network interfaces: 4 Gigabit Ethernet RJ45
- USB 2.0: 2 front and 2 rear
- Lights-Out Mgmt: RJ45 rear
- Display port: 2 15-hole VGA Out
- Serial port: 1 rear

### Operating system

- Red Hat Enterprise Linux 5 (64-bit)

### Performance specifications

- DNS: 200,000+ queries per sec. (qps) measured
- DHCP: 14,000+ leases per sec. (lps) measured