

Alcatel-Lucent VitalQIP®

QIP™ 6000 Appliance

The QIP™ 6000 Appliance packs premium power into a compact 1U platform to satisfy the IPAM and DNS/DHCP processing needs of the most demanding Enterprise and Carrier customers.

The QIP 6000 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 6000 is Alcatel-Lucent’s most powerful appliance to date that supports performance intensive applications consisting of millions of IP addresses. The QIP 6000 comes in both AC and DC power and includes a NEBS-compliance option. The QIP 6000 platform is extremely scalable with 32GB of memory and 12-core processors as well as resilient with dual hot-plug power supplies and 6TB of RAID-10 protected disks. The QIP 6000 is an ideal choice for high-end VitalQIP installations.



FEATURES	BENEFITS
One source for both the hardware and software	Simplifies support issues since one source addresses service needs
Powerful server platform based on dual 6-core Intel Xeon processors	Exceptional scalability to run applications consisting of millions of IPs
Resiliency with dual power supplies, RAID-10 protected disks and NEBS compliance	Your applications can withstand harsh environments, power outages, rare equipment failure and exceed your corporate uptime goals
Dual independent bus architecture	Enables dedicated data flow to each processor, maximizing system performance
64-bit architecture	Extends the amount of server memory available
Network ready with 8 Gigabit NICs	You can keep existing network design and replace multiple servers with a single QIP 6000
Lights-Out management	Provides remote access to appliance to quickly determine status and restore operation if necessary

Technical specifications

VitalQIP functions supported

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

CPU

- (2) Intel Xeon E5-2620 64-bit 2.0 GHz 6-Core CPUs (12 Physical cores, 24 logical cores with Hyperthreading)

Memory

- 32 GB ECC DDR3 RDIMMs

Hard disk

- (6) 1 TB 2.5 inch SATA (7.2K RPM) configured as RAID-10 providing 3TB of highly protected disk

System bus speed

- 1333 MHz

Form factor

- 1U

Dimensions

- Height: 1.67 in. (4.3 cm)
- Width: 17.10 in. (43.4 cm)
- Depth: 29.00 in. (73.6 cm)
- Add 1/2 inch (1.4 cm) for Alcatel-Lucent bezel

Weight (without racks)

- 41.0 lbs (18.6 kg)

Mounting racks: included

Mean Time Between Critical Failure (MTBCF)

- 52,500 hours

Power supply

- AC Power: Dual hot-plug redundant 750W
- DC Power: Dual hot-plug redundant 1100W

Power consumption

- AC: 237.0 watts, 2.2 amps
- DC/NEBS: 233.0 watts, 2.1 amps

Voltage

- 110/220 AC automatic switching

Thermal load

- AC: 808.7 btu/hour
- DC/NEBS: 795.0 btu/hour

Environment

- Ambient operating temp: 10°C to 35°C
- Ambient non-operating (storage) temp: -40°C to +65°C
- Operating relative humidity: 10% to 80%, non-condensing

System cooling

- Seven fixed cooling blowers

External I/O ports

- Network interfaces: 8 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: 300,000+ queries per sec. (qps) measured
- DHCP: 15,000+ leases per sec. (lps) measured