



UltraBand™ 5000 Product Line Specifications

Available Models					
Model	UB5000-05	UB5000-10	UB5000-25	UB5000-50	UB5000-100
System Description	2 Gbps grid caching system with iSCSI storage	4 Gbps grid caching system with iSCSI storage	8 Gbps grid caching system with iSCSI storage	15 Gbps grid caching system with iSCSI storage	30 Gbps grid caching system with iSCSI storage
Max Forwarding Rate	1.5Gbps	3 Gbps	6 Gbps	12 Gbps	24 Gbps
Cache Engines	1	2	4	8	16
Storage Enclosures	1	2	3	4	6 to 10
Management Servers	0	1	1	1	1
Data Switches	0	2	2	2	2
Management Switches	0	0	1	1	2

System Capabilities	
Supported Protocols	<ul style="list-style-type: none">• HTTP progressive download video services: YouTube, DailyMotion, Google Video, Todou, Youku, MSN Movies, Veoh, Yahoo Video, Metacafe, AOL Video, DivX• HTTP software update services: Microsoft Windows updates, Adobe Acrobat updates, Apple updates (Mac OS, iTunes, Safari), antivirus and gaming updates• Web-based file sharing services: RapidShare, MegaUpload, Badongo, MegaUpload, zShare, DL Free• Generic HTTP file downloads• Open P2P: BitTorrent, E-Donkey, Gnutella/Gnutella2 and Ares• Commercial P2P: Pando
Scalability	<ul style="list-style-type: none">• Up to 16 caching engines in a cluster• Up to 10 storage enclosures with up to 60TB storage• Up to 8 million simultaneous sessions
Configurable Cache	<ul style="list-style-type: none">• Configurable upstream and downstream caching• Complete control over applied links• Control over Cache output rate• Integration with DPI and other efficiency solutions
Availability	<ul style="list-style-type: none">• M+N redundancy of cache engines• RAID mirroring for storage arrays• Hot-swappable power supplies and disks• Software and hardware watchdogs• Hitless in-service software upgrades
Management	<ul style="list-style-type: none">• Web-based reporting and element management (UBView)• SNMP v.2 monitoring• CLI-based XML configuration• Serial over LAN (SOL)
Security	<ul style="list-style-type: none">• Management security: HTTPS-based Web access, SSHv2-based CLI• IP-based ACL for CLI and Web management• Two level CLI authentication
Content Filtering	<ul style="list-style-type: none">• Integrated McAfee® SmartFilter URL categorization database• 90+ standard categories• Unlimited number of custom categories• Content requests can be blocked, redirected or allowed• Custom URL lists for YouTube videos• Control access to/from specific Web site or host (user) IP address
Regulation Compliance	<ul style="list-style-type: none">• US DMCA (1998)• EU E-commerce directive (2000)



System Specifications	
Performance Metrics	
Traffic Forwarding	• 1.5 Gbps per cache engine / 24 Gbps per system
Traffic Generation	• 500 Mbps per cache engine / 8 Gbps per system
Application Sessions	• 500,000 per cache engine / 8,000,000 per system
Cache Engine Specifications	
CPU	• Two quad-core 2.53 GHz Intel Xeon CPU
RAM	• 16 GB (8x2GB 1333MHz Dual Ranked UDIMMs)
Internal Storage	• 2 x 146GB SAS HDDs in HW RAID configuration
Network Connectivity	<ul style="list-style-type: none"> • Quad-port copper GigE data NIC (IEEE 802.3ab) with fail-to-wire capabilities • Optional quad-port fiber GigE data NIC, single-mode or multi-mode (IEEE 802.3z standard) • Two dual-port copper GigE management NICs (IEEE 802.3ab) • Auto-sensing capability and Fast Ethernet support (IEEE 802.3u) on all ports
Dimensions	• 1U in 19" rack-mountable chassis 77.2cm (30.39") D x 48.24cm(18.99") W x 4.26cm (1.68") with bezel attached
Power	<ul style="list-style-type: none"> • 2x hot-plug 717W High Output power supply units • Auto-switching universal 110/220 Volts
Temperature	• Operating: 10° C to 35° C (50° F to 95° F); Storing: -40° C to 65° C (-40° F to 149° F)
Humidity	<ul style="list-style-type: none"> • Operating relative humidity: 20% to 80% (non-condensing) • Storing relative Humidity: 5% to 95% (non-condensing) • Maximum humidity gradient: 10% per hour, operational and non-operational
Regulatory Compliance	<ul style="list-style-type: none"> • ACMA or C-Tick (Australia/New Zealand) Class A; BELLIS (Belarus) Class A; KVALITET (Bosnia & Herzegovina, Montenegro, Serbia) Class A; ICES (Canada) Class A; CNCA or CCC (China) Class A; KONCAR (Croatia) Class A; CE (EU) Class A; SII (Israel) Class A; VCCI (Japan) Class A; OTAN-CKT (Kazakhstan) Class A; INSM (Moldova) Class A; NEMKO (Norway) Class A; GOST (Russia) Class A; SABS (S. Africa) Class A; KCC (S. Korea) Class A; BSMI (Taiwan) Class A; UKRTEST or UKRSERTCOMPUTER (Ukraine) Class A; FCC (USA) Class A; STZ (Uzbekistan) Class A; ICT (Vietnam) Class A
Management Engine Specifications	
CPU	• Single quad-core 2.00GHz Intel Xeon CPU
RAM	• 2 GB (2x1GB 1066MHz Single Rank UDIMMs)
Internal Storage	• 2x 160GB SATA HDDs in HW RAID configuration
Network Connectivity	<ul style="list-style-type: none"> • 2x dual-port copper GigE management NIC (IEEE 802.3ab standard) • Auto-sensing capability and Fast Ethernet support (IEEE 802.3u) on all ports
<i>Note: Dimensions, Power Requirements, Temperature & Humidity, and Regulatory Compliance are same as Cache Engine</i>	
Storage Array Specifications	
SAN Connectivity	• 4x iSCSI GigE copper data ports (IEEE802.3ab), 2x GigE copper management ports (IEEE 802.3ab)
Storage	• 15x 450 GB HDDs, maximum throughput 320MB/sec per HDD
Size	<ul style="list-style-type: none"> • 3U in 19" Rack-mountable chassis • 48.01cm (18.90") D x 44.63 cm (17.57") W x 13.11 cm (5.16") H
Power	• 478 W maximum continuous / 550 W peak, Input voltage range of 100-240 V rated (actual 90-264 V)
Temperature	• Operating: 10° C to 35° C (50° F to 95° F); Storing: -40° C to 65° C (-40° F to 149° F)
Humidity	• Operating: 20% to 80% (non-condensing); Storing: 5% to 95% (non-condensing)

