

HIGH-PERFORMANCE, SCALABLE ACCESS GATEWAY ADDRESSES FLUCTUATING BANDWIDTH DEMANDS



NOMADIX AG 5800 ACCESS GATEWAY

The AG 5800 is a next generation, high-performance Internet access gateway that extends a wired or WiFi network to create a public Internet access network. Designed for medium- to large-sized venues, from hotels to airports to convention centers, the AG 5800 features the flexibility to support 250 devices and scale to 4,000 simultaneous devices. Unlike server-based solutions, the AG 5800 is a fast, reliable, dedicated network appliance designed to keep traffic flowing.



NEXT GENERATION PLATFORM FOR SPEED AND DURABILITY

The AG 5800 hardware platform is built upon Intel's high-performance processors and sports built-in flash memory. The AG 5800 is designed for intensive usage while supporting a Gbit WAN port and four LAN ports. Top-speed is delivered regardless of user load. The durability of the AG 5800 is achieved due to its reliable and quality platform, ensuring optimum uptime.

Based on the VxWorks real-time multi-tasking operating system, the AG 5800 is architected to use less processing power and run faster. Combined with the proven Nomadix Service Engine™ (NSE) Core Software, the AG 5800 is an ultra high-performance appliance with unparalleled reliability.

BANDWIDTH MANAGEMENT

The AG 5800 comes equipped with a range of bandwidth management tools, ensuring that the quality of the connection is optimum and that each user gets fair access to bandwidth. Bandwidth can be managed by group, subscriber or device, or a combination of all three, and includes data offloading. The AG 5800 is equipped to operate at near wire speed and also offers new NSE features with increased computational intensity.

HIGHLY SCALABLE

From medium-sized businesses to large public settings, the AG 5800 is scalable from 250 up to 4,000 simultaneous devices. No change of hardware or software design is required to upgrade to the desired device count. The AG 5800 fits in any environment that uses a rack mount.

ADVANCED SECURITY FOR NETWORK PROTECTION

The AG 5800 offers advanced security for network protection with ICMP packet blocking. Enhanced by utilizing Session Rate Limiting (SRL) to manage Denial of Service (DOS) attacks, the AG 5800 includes URL filtering, centralized RADIUS authentication, and iNAT technology that allows multiple VPN tunnels to provide users with a seamless connection at higher levels of security. Additionally, the AG 5800 provides the ability to centrally monitor responsible usage, and set policies to securely manage user access.



MODEL

AG 5800 SPECIFICATIONS

User True Plug and Play	Dynamic Address Translation (DAT)	Dynamic Transparent Proxy	
Service Provisioning	Home Page Redirect HTTP - Redirect HTTPS -Redirect Portal Page Redirect Session Termination Redirect Information and Control console	Pop-up (Explicit) Logout Button International Language Support External Web Server Mode Internal Web Server Mode	Secure XML API over SSL Login Page Failover
Billing Plan Enablement	RADIUS Client RADIUS (AAA) Proxy Port Based Policies	Port Mapping Local Database Credit Card Interface PMS Advanced XML Interface	Bill Mirroring
Access Control and Authentication	Authorization, Authentication and Accounting (AAA) Walled Garden Group Accounts	Tri Mode Authentication Universal Access Method over SSL IEEE 802.1x Smart Client Support (Boingo, iPass)	MAC Authentication Remember Me Log-in
Advanced Security	iNAT IPSec Support PPTP Support	Session Rate Limiting (SRL) User Agent Filtering Mac Address Filtering URL Filtering	ICMP Blocking Proxy ARP for device to device communication
Policy Based Traffic Shaping	Bandwidth Management	QoS Tagging Group Bandwidth Management	
IP Address Management	IEEE 802.3/ 3u/3ab IEEE 802.1d DHCP Server	DHCP Relay Multiple Subnet Support IP UPSell	DHCP Client PPPoE Client
Intelligent Roaming	Realm Based Routing	Zone Migration	
Branding	Parameter Passing enabling branding		
Network Management	Web Management Interface (WMI) Command Line Interface (CLI) Integrated VPN Client for Management RADIUS-Driven Configuration	Multi-level Admin Support Centralized Radius Authentication SMTP Redirection Access Control	Bridge Mode SNMPv2c Syslog/AAALog
Media Access Control	CSMA/CA		
Ports	10/100/1000 Base-T Ethernet, RJ-45 (UTP): WAN 5 - 10/100/1000 Base-T Ethernet, RJ-45 (UTP): LAN	Front access RJ-45 port for serial System Console DB9 serial port: Property Management Interface	
Power	100 to 240 VAC	50/60 Hz	220 watts
Environment	Operating temp 0 to 40C Operating humidity: 5% to 90% RH	Storage: -20 to 70C Storage humidity: 5% to 95% RH (non condensing)	
Regulatory	FCC Class A UL, UL (US and Canada) CE EN 55022: 2010 Class A, EN 61000-3-2:2006/A1:2009/A2:2009, EN 61000-3-3:2008	EN55024:2010 (IEC 61000-4-2:2008, IEC 61000-4-3:2006/A1:2007/A2:2010, IEC 6100-4-4:2004/A1:2010, IEC 6100-4-5:2006, IEC 61000-4-6:2008, IEC 61000-4-8:2009, IEC 6100-4-11:2004), Australian Standard AZ/NZS CISPR 22:2009 Class A	CB Scheme
Physical	1U rack mountable 431mm wide x 305mm deep x 44.4mm high	17" x 12" x 1.75" Weight 10.2 lbs.	Weight: 4.6 kg
LEDs	Power Indicator Status Indicator	10/100/1000 ACT/LINK for each Ethernet port	
Performance	4000 Concurrent Users and or Devices	Throughput: Up to 970 Mbps as defined by RFC1242, Section 3.17	

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