

AG 2100

A SUPERIOR, INTEGRATED SOLUTION FOR SINGLE OR DUAL CELL HOTSPOT LOCATIONS.

The Nomadix AG 2100 is a cost-effective, integrated Wireless Gateway that combines our Nomadix Service Engine™ (NSE) software with a powerful Wi-Fi™ Access Point for maximum range and coverage.

AT-A-GLANCE

- Powered by the Nomadix Service Engine Core Software and available Modules
- Integrated Wi-Fi™ HotSpot connectivity device for single or dual cell venue deployments
- Dual-band, dual-mode device supports IEEE 802.11b/g standards for rollout flexibility

CUSTOMER ACQUISITION

- Our patented Dynamic Address Translation™ (DAT) technology offers transparent network connectivity with Zero Configuration changes by resolving IP configuration and browser proxy issues
- Enables HotSpot owners to offer a user-friendly service while reducing provisioning and technical support costs

SERVICE PROVISIONING

- Home Page Redirection intercepts the user's browser settings and directs them to a Web site for secure sign-up or log-in
- Pre, Post and Goodbye redirection capabilities provide maximum branding flexibility for both providers and HotSpot owners

ACCESS CONTROL

- Allows access to a pre-determined "Walled Garden" area of the Internet prior to authentication while providing an additional layer of security in the network by blocking access to the Internet until the user has been authenticated
- Gain incremental revenues from e-commerce sites, applications or content providers before the user purchases access

MULTIMODE AUTHENTICATION

- Supports secure, browser-based authentication over SSL while simultaneously supporting IEEE 802.1x and Smart Clients
- Providers can support the widest range of authentication, wholesale and roaming options

MULTIPLE SERVICES AND INFRASTRUCTURE WHOLESALE

- Supports up to 16 virtual access points (VAP) with unique BSSIDs, authentication and association methods. Traffic from each VAP can be tagged to a unique VLAN and/or bridged if required
- Enables a single provider to create multiple service offerings or to wholesale the infrastructure to multiple providers thereby offering maximum flexibility and functionality at reduced cost

BILLING ENABLEMENT

- Supports a wide variety of billing models allowing providers and HotSpot owners to create billing plans using credit cards, scratch cards or monthly subscriptions
- Public Access Service Operators (PASOs) and Venue Owners can generate revenue at every touchpoint with the user – before, during, and after the connectivity purchase as well as support roaming users

ADVANCED SECURITY

- Patent-pending iNAT™ functionality offers unmatched VPN support
- Session Rate Limiting (SRL) and MAC filtering capabilities significantly reduce the risks of Denial of Service (DoS) attacks protecting the very edge of the network
- Supports 64/128-bit WEP security and dynamic generation of session keys for protection of data
- Supports WPA/WPA2 (802.11.i) Personal and Enterprise with TKIP and AES/CCMP cipher
- Supports Lawful Intercept using Tracking Logs

MANAGEMENT

- Includes IPSec client for secure remote management and built-in Web Management Interface and CLI where various levels of administration can be set along with extensive SNMP support
- Remotely manage a large number of devices using standards-based tools, keeping the cost of deployment and maintenance down

PRODUCT OVERVIEW



AVAILABLE MODULES

Credit Card Module

- Credit Card Interface

Wholesale Roaming Module

- NAI Routing

Virtual AP

- Multiple SSIDs

For more information on the NSE_{CORE} and available Modules, visit www.nomadix.com.



HOTSPOT TYPES



AG 2100

SPECIFICATIONS

PUBLIC ACCESS:

- Dynamic Address Translation™ (DAT)
- Home Page Redirection (Pre and Post Authentication / Goodbye)
- iNAT™ (for seamless VPN connectivity)
- SMTP Redirection
- Full Authorization, Authentication and Accounting Support
- Lawful Intercept Tracking Logs
- RADIUS Client with NAI Routing
- Bandwidth Management
- Information and Control Console
- Global Roaming Support

VIRTUAL ACCESS POINT:

- Up to 16 SSIDs with unique MAC Addresses (BSSID)
- Configurable broadcasts
- 802.1q VLAN tag per VAP with Bridging
- Configurable Authentication/Association Mode per VAP

MEDIA ACCESS CONTROL:

- CSMA/CA

PORTS: BASE-T

- 10/100Base-T Ethernet, RJ-45 (UTP): Network
- 10/100Base-T Ethernet, RJ-45 (UTP): Subscriber

WIRELESS:

802.11b Specifications:

- Frequency Band: 2.4GHz - 2.4835GHz
- Data Rates: 11, 5.5, 2, 1 Mbps
- Modulation: Direct Sequence Spread Spectrum (CCK, DQPSK, DBPSK)

802.11g Specifications:

- Frequency Band: 2.4GHz - 2.4835GHz
- Data Rates: 54, 48, 36, 24, 18, 12, 6 Mbps
- Modulation: Orthogonal Frequency Division Modulation (64 QAM, 16 QAM, QPSK, BPSK)

NETWORKING:

- IEEE 802.3 / 3u / 3x
- IEEE 802.1d Bridging
- PoE per IEEE 802.3af
- DHCP Server, DHCP Relay, DHCP Client
- Multiple Subnet Support
- PPPoE Client
- 802.1q VLAN Tagging
- Static Port Mapping

SECURITY:

- WPA/WPA2 (802.11i) Personal and Enterprise
- 64-bit/128-bit WEP with dynamic keying
- iNAT™
- Layer 2 Isolation
- MAC Address Filtering and Session Rate Limiting

ANTENNA TYPE:

- 802.11b/g: 2dBi
- Detachable Reverse SMA

AUTHENTICATION:

- Internal Database, MAC Address
- Universal Access Method (UAM) using SSL
- Smart Client Support (Boingo Wireless, iPass, GoRemote)
- IEEE 802.1x (MD-5 / TLS / TTLS / PEAP)
- RADIUS Client (MD-5, PAP, CHAP, MS-CHAPv1, v2), NAI Routing
- RADIUS Proxy
- PPP/L2TP Authentication
- Remember-Me and RADIUS Re-authentication
- Credit Card Support

MANAGEMENT:

- Multi-Level Administration Controls
- Integrated VPN Client (IPSec) for secure connection to a NOC
- Access Control Lists
- SNMPv2c
- Secure XML API
- Auto Configuration and Upgrades
- Syslog/AAA Log

POWER:

- 100 to 240 VAC
- 50/60 Hz

ENVIRONMENT:

- Operating temperature: 0 - 40°C
- Operating humidity: 10 - 90% RH non-condensing
- Storage temperature: -20 - 65°C
- Storage humidity: 5 - 95% RH non-condensing

REGULATORY:

- FCC Class B, Part 15
- CE Mark
- CE/R&TTE: EN300328, EN301893, EN301489-1, EN301489-17
- VCCI Class B
- Telec
- CSA22.2 No. 950

COMPATIBILITY:

- Communicates with all Wi-Fi certified wireless adapters

PHYSICAL:

- 9.25(L) x 6.25(D) x 1.5(H) inches
- 91.2(L) x 54(D) x 36.4(H) mm
- Weight: 1.25 lbs.
- Weight: 567 grams
- Wall Mountable

LEDS:

- Power Indicator
- 10/100 ACT/LINK: Network
- 10/100 ACT/LINK: Subscriber
- 802.11b/g ACT/LINK: Subscriber



NOMADIX INTERCONNECT SERVICES

Nomadix Interconnect Services™ (NIS) creates a large, managed roaming footprint for Public Access Service Operators (PASOs) and venues to connect with nomadic subscribers, regardless of their location. NIS also offers applications and content delivery such as partner branded services, VOIP and advertising. To learn more visit www.nomadix.com.



NOMADIX™

ORDERING INFORMATION:

Model: AG 2100

Nomadix Service Engine, Dynamic Address Translation and iNAT are trademarks or registered trademarks of Nomadix Inc. Other names and brands may be claimed as the property of others.

Corporate Headquarters
1100 Business Center Circle
Suite 100
Newbury Park, CA 91320

Toll Free: +1.800.666.2349
Phone: +1.818.597.1500
Fax: +1.818.597.1502
www.nomadix.com