

Access/One® Network 5100 Series



Extreme Performance – Low Cost Wireless Extension

Strix Systems Access/One® Network (A1N) 5100 customer premise equipment (CPE), powered by Strix DMA™ and Multiple Input, Multiple Output (MIMO) techniques is one of the industry's highest powered wireless network extensions for the longest reach of an indoor wireless network CPE. Strix A1N5100 series allows dynamic channel assignment, automatic power control and data rate selection for greatest RF spectrum efficiency.

Optimal Throughput for Voice, Video and Data Applications

Strix A1N5100 is an ideal solution for a subscriber client that is cost effective when extra signal is required when connecting to a Strix Access/One Network for virtually any application. It supports a broad range of voice, video and data applications delivering the highest performance and seamless mobility. The A1N5100 is an ideal choice for service providers worldwide.

Low Latency and High Throughput across multiple wireless hops

While wireless-enabled laptops and other wireless devices don't provide adequate power to communicate with infrastructure mesh networks, the A1N5100 offers a four-fold increase in power, penetration and performance for the most excellent network experience. By improving signal strength, the mesh network is quickly detected, optimal channels selected and the client connection secured. All Strix Access/One are self configuring, enable interference mitigation, provide network resiliency, and offer built-in troubleshooting tools and remote upgradeability for the most demanding environments.

Plug & Play with Seamless Interoperability

Plug-n-play simplicity, auto-discover and self-configuration. The A1N5100 offers seamless interoperability with the other Strix Access/One® Network family of product solutions.

Easy Manageability

Strix A1N5100 allows centralized provisioning and easy remote manageability via CLI, HTTP and SNMP. The device also supports remote firmware updates and includes a number of monitoring, trending and troubleshooting from a centralized NOC. The A1N5100 does event logging and statistics, Layer-2 and Layer 3 NAT monitors, client monitor, rogue device detection and reports signal strength history.

Security & (QoS) Optimization

Strix A1N5100 is powered with Strix DMA for enhanced Quality of Service and supports the highest levels of security authentication and encryption to secure and protect clients. It also supports Multiple VLANs, VPNs, PPPOE, data rate limiting and tunable roaming parameters.

Technical Specifications

Models

- ✗ A1N5111 – 1G/N
- ✗ A1N5121 – 1G/N, 1A/N/J/4.9

Security & Encryption

- ✗ 802.11i Security: WPA-PSK, WPA2-PSK
- ✗ Enterprise WPA, WPA2
- ✗ RADIUS 802.1x1
- ✗ AES and TKIP encryption
- ✗ Access/One Authentication
- ✗ Wired Equivalent Privacy (WEP)
- ✗ PPPOE
- ✗ Layer 2/3 Traffic Isolation
- ✗ MAC Address Access Control Lists
- ✗ Management VLAN

Operating Modes

- ✗ Station
- ✗ Access Point¹
- ✗ Layer 2 NAT
- ✗ Layer 3 NAT, DHCP Server¹

Troubleshooting

- ✗ Client Monitor, Wireless Neighbor List
- ✗ Event Logging and Statistics
- ✗ Layer 2 and 3 NAT Monitor
- ✗ Signal Strength History
- ✗ Diagnostic Utility
- ✗ Antenna Aimer

Wireless Interface

- ✗ Wireless Standards – G/A/N/J/4.9
- ✗ Frequency Bands:
 - ✗ 802.11G/N
 - ✗ 2.4 - 2.462 GHz (Americas, FCC)
 - ✗ 2.4 - 2.472 GHz (Europe, ETSI)
 - ✗ 2.4 - 2.497 GHz (Japan, MKK)
 - ✗ 802.11A/N
 - ✗ 5.15 - 5.25 GHz
 - ✗ 5.25 - 5.35 GHz
 - ✗ 5.470 - 5.725 GHz
 - ✗ 5.725 - 5.850 GHz
 - ✗ 802.11J/4.9
 - ✗ 4.94 – 4.99 GHz (USA)
 - ✗ 4.92 – 5.08 GHz (Japan)
- ✗ Receiver Sensitivity Rates (Mbps)
 - ✗ -68 dBm HT40 @ Up to 300 Mbps
 - ✗ -68 dBm HT20 @ Up to 150 Mbps
 - ✗ -74 dBm @ 54 Mbps
 - ✗ -91 dBm @ 11 Mbps
- ✗ Transmit Power
 - ✗ Up to 23 dBm¹
- ✗ Modulations
 - ✗ 802.11a: 16- QAM, 64- QAM, QPSK, BPSK
 - ✗ 802.11b: CCK, DQPSK, DBPSK
 - ✗ 802.11g: 16-QAM, 64-QAM, QPSK, BPSK
 - ✗ 802.11n: 16-QAM, 64-QAM, QPSK, BPSK
- ✗ Supported Channel Widths
 - ✗ 5, 10, 20, and 40 MHz

Remote and Local Management

- ✗ HTTP, HTTPS, CLI, Telnet, SSH, SNMP, FTP
- ✗ Remote Management and Provisioning

Electrical

- ✗ AC Input: Auto-sensing 100-240 VAC, 50/60 Hz
- ✗ DC Input: 12V, 1A
- ✗ Power Over Ethernet, 802.3af

Physical

- ✗ Dimension (mm): 241W x 51H x 152D
- ✗ Weight: 680g
- ✗ Operating Temperature: -20°C to 60°C
- ✗ Storage Temperature: -20°C to 85°C
- ✗ Humidity: 95% Non-condensing

Warranty

- ✗ 13 Months Hardware, Software and Technical Support

Interfaces and Ports

- ✗ Four GigE 10/100/1000 Mbps Ethernet ports
- ✗ External RPSMA
- ✗ Serial DB9, RS232, RS485
- ✗ LED Indicators: Link, Activity, Power, Signal
- ✗ Reset button

¹ Transmit power varies by country