

# Access/One® Network 5300 Series



## Extreme Performance – Low Cost Mobile Wireless Extension

Strix Systems Access/One® Network A1N5300 Mobile equipment, powered by Strix Edge™ and MIMO techniques is the industry's highest performance mobile wireless network extensions for the longest reach of an outdoor wireless network. The A1N5300 is small, sleek, durable and portable, designed for any vehicle type, enabling the longest reach and instant mesh hand-off compared to any other mobile Wireless devices.

## Optimal Throughput for Voice, Video and Data Applications

Strix A1N5300 is an ideal solution for a subscriber client; it is cost effective to extend the reach of Strix Access/One Network into homes and small business. It supports a broad range of voice, video and data applications delivering the highest performance and seamless mobility. The A1N5300 is an ideal choice for any mobile communications network 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 outdoor mesh networks, the A1N5300 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.

## High Speed Roaming

The A1N5300 supports ultra fast roaming and utilizes its built-in intelligent radio algorithms to determine optimal network paths for seamless mobility and instant mesh hand offs at speeds up to 160 mph.

## Easy Manageability

Strix A1N5300 supports 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 Strix A1N5300 allows dynamic channel assignment, automatic power control and data rate selection for greatest RF spectrum efficiency, supports 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 A1N5300 provides enhanced Quality of Service and supports the highest levels of security authentication and encryption to secure and protect clients. It also supports Multiple VLANs, Multiple VPNs, PPPOE, data rate limiting and granular tunable roaming parameters.

## Technical Specifications

### Models

- ✗ A1N5300-12 –A/G/N/J
- ✗ A1N5300-22 –A/G/N/J

### Security & Encryption

- ✗ 802.11i Security: WPA-PSK, WPA2-PSK
- ✗ AES and TKIP encryption
- ✗ Access/One Authentication
- ✗ Wired Equivalent Privacy (WEP)
- ✗ PPPOE
- ✗ MAC Address Access Control Lists
- ✗ Management VLAN
- ✗ Firewall

### Operating Modes

- ✗ Station
- ✗ Access Point<sup>1</sup>
- ✗ Layer -2 NAT
- ✗ Layer-3 NAT, DHCP Server

### Troubleshooting<sup>4</sup>

- ✗ 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
    - ✗ 5.860 - 5.880 GHz
  - ✗ 802.11J/4.9
    - ✗ 4.94 – 4.99 GHz (USA)
    - ✗ 4.92 – 5.08 GHz (Japan)
- ✗ Receiver Sensitivity Rates (Mbps)
  - ✗ 802.11g/n HT20: -74dBm @MCS7
  - ✗ 802.11g/n HT40: -72dBm @MCS7
  - ✗ 802.11a/n HT20: -72dBm @MCS7
  - ✗ 802.11a/n HT40: -70dBm @MCS7
  - ✗ 802.11g/a -74/-72dBm @ 54 Mbps
- ✗ Transmit Power
  - ✗ Up to 23dBm<sup>2</sup>
- ✗ Modulations
  - ✗ 802.11a: 16-QAM, QPSK, BPSK
  - ✗ 802.11b: CCK, DQPSK, DBPSK
  - ✗ 802.11g: 16-QAM, QPSK, BPSK
  - ✗ 802.11n/j: 16-QAM, 64-QAM, QPSK, BPSK
- ✗ Supported Channel Widths
  - ✗ 5, 10, 20, and 40 MHz<sup>3</sup>

### Remote and Local Management

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

### Electrical

- ✗ Power Over Ethernet, 802.3af
- ✗ Max power 10W

### Physical

- ✗ Dimension (mm): 7.25"H x 8.25"W x 2.25"D<sup>1</sup>
- ✗ Weight: 1.08Kg<sup>1</sup>
- ✗ Operating Temperature: 0°C to 50°C<sup>1</sup>
- ✗ Storage Temperature: -20°C to 70°C
- ✗ Humidity: 95% Non-condensing

### Warranty

- ✗ 13 Months Hardware, Software and Technical Support

### Interfaces and Ports

- ✗ One 10/100 Mbps Ethernet port
- ✗ External N-connectors<sup>1</sup>

<sup>1</sup> Depends on Model and/or Enclosure

<sup>2</sup> Transmit power varies by country

<sup>3</sup> Channel width varies with model

<sup>4</sup> Available Feature software upgrade