



Proven Industry Leader  
in Wireless Mesh  
Networking



ACCESS/ONE®  
OUTDOOR WIRELESS SYSTEM

# ACCESS/ONE



Strix Systems is the worldwide leader in wireless mesh networking. Strix Access/One® family of products is the most scalable modular mesh system in the industry, delivering the largest capacity, highest throughput and lowest latency. This new generation of products is specifically designed for high quality voice, streaming video, and data in both fixed and mobile applications for large-scale deployments. Sold globally to service providers and municipalities in conjunction with its partner ecosystem, Strix Access/One solutions have been deployed in hundreds of networks worldwide by service providers, network integrators, carriers, corporations, contractors and municipalities - outdoor and indoor, in metro, public safety, government, homeland security, medical, energy, industrial, transportation, hospitality, education, enterprise, and residential markets.

- Carrier • Municipal Networks • Public Safety
- Public Access • Transportation • Mixed Use

Successful network deployments achieving excellent total cost of ownership (TCO) requires the ability to support multiple services in a rapidly evolving market; maximizing revenue, minimizing cost, and incorporating new technologies over a 5 to 10 year time horizon. The ability to support the rapid growth in voice services and multimedia video streaming in addition to enterprise-class data applications is essential. Sustained high performance, low latency and field upgradeability provides the ability to accommodate subscriber density fluctuations, radical changes in service mix (e.g., cellular convergence) and the addition of new technologies is strategic to long-term success. Strix Systems Access/One Network family of products represents the next generation of wireless LAN technology, providing a structured and versatile modular mesh—network supporting 802.11a/b/g, WiMAX, 4.9GHz and new RF technologies as they come available. Strix Access/One is the Industry's only modular multi-radio system to automatically self-discover, self-configure, self-tune and self-heal on a large-scale basis. Strix Access/One Network family of products are the ideal solution for a wide range of carrier and enterprise-class deployments.

Access/One Network OWS is deployed for extended range, power and versatility for both service providers and their customers.

- ▶ Service providers; Public access mesh networks, hot zones, city and country-wide deployments.
- ▶ Carriers; Extending existing infrastructure, cost-effective expansion, cellular backhaul, competitive displacement.
- ▶ Municipal Governments; For private and public access and to reduce the digital divide
- ▶ Public Safety; First responders, and high-speed transportation networks.
- ▶ Homeland Security; Enabling permanent and ad-hoc wireless networks for flexible video surveillance monitoring and telemetry.
- ▶ Enterprise, Industrial, Education, Campus, more...

# OUTDOOR WIRELESS SYSTEM

## Strix DMA™ Distributed Node Intelligence builds the largest and most resilient wireless mesh networks in the industry.

Strix Access/One is based on Strix DMA™ (Dynamic Mesh Architecture) and Strix Systems patented designs: a high-speed wireless switching architecture with distributed localized network intelligence, multiple radios available for subscriber access and multiple radios dedicated for backhaul. This third generation architecture, unique in the industry, provides robust, high quality transport for voice, enterprise-class data and streaming video content for up to an unparalleled ten or more hops with minimal latency and little reduction in throughput. By contrast, first and second generation single and dual radio systems are incapable of carrying traffic for more than a few hops without significant reduction in throughput and high latency. Unmatched in the industry, independent test labs conclusively show Strix as the

industry's best performing wireless mesh network system; maintaining a throughput of 35 Mb/s over multiple hops, supporting substantial VoIP call volumes with excellent quality ratings (MOS=5) in the presence of high-bandwidth data. Strix OWS can be deployed in mesh sectors of up to one hundred

nodes from a single Internet back-haul location, materially reducing site acquisition time, cost and complexity, substantially reducing the time to market resulting in the industry's lowest TCO.

Strix OWS is field upgradeable to six radios in a compact chassis, supporting a wide variety of antenna technology options. Up to four radios can be dedicated for subscriber access: thus enabling a substantial increase in-building penetration (with sector antennas) and supporting a three-fold increase in subscriber density. The introduction of new technologies such as WiMAX and 4.9GHz is easily accomplished without fork-lift upgrade, increasing the available applications, the service areas covered and the density of customers served.

**Low latency and high performance over multiple hops to the edge of the network.**



# INDUSTRY LEADING WIRELESS MESH NETWORKS

1-877-STRIXSYS Toll Free

## Industry's Highest Performance

Independent tests prove Strix Systems leadership as the industry's highest performance wireless mesh network system.

*Benefit: The delivery a broad range of high performance voice, video and data services with minimal infrastructure costs.*

## Industry's Lowest latency

Proven through independent testing and customer deployments, Strix Access/One is the industry's lowest latency wireless mesh network system.

*Benefit: The industry's lowest latency supporting the largest-scale deployments of timing sensitive applications such as voice-over-ip at the highest achievable quality.*

## Any Radio, Any Configuration

Strix Access/One is the industry leader in wireless network technologies enabling any radio technology in any configuration in a modular chassis-based system.

*Benefit: Flexible deployments using any radio, any technology, any channels in any configuration for wireless backhaul and client access.*

## Greatest Multi-hop Coverage

Strix Access/One offers the highest performance and range to achieve the greatest number of wireless hops with the industry's highest sustained throughput.

*Benefit: Strix Access/One maximizes the revenue potential and minimizes the cost of network infrastructure and operations for the industry's most compelling total cost of ownership (TCO).*

## Highest Capacity and Scalability

Up to six radios can be added to a node, each serving a unique purposes—ingress or egress in the mesh backbone and access for clients.

*Benefit: Unparalleled performance across vast wireless hops and scaling up to six radios per node increasing user or backhaul capacity with fewer wireless nodes required per square mile.*

## High-Speed Fast Roaming

Strix Access/One is the only wireless mesh network solution to support high-speed mobile roaming.

*Benefit: Roaming from node to node in excess of 200MPH. High speed, high quality voice, video streaming and data access for even the fastest transportation systems.*

## Carrier-Class Quality Of Service

Strix Virtual/Strix™ and Priority/One™ enable each wireless mesh link to be fine tuned and groomed, increasing the value and revenue potential of the network.

*Benefit: Hardware accelerated performance, encryption and QoS priority assignment enables defined classess of service.*

## Highly Resilient Mesh Networks

Strix Access/One is the industry leader in modular wireless mesh networking technologies enabling automatic mesh configuration, self-tuning and carrier-class resilience.

*Benefit: Strix Access/One is the industry's only "in-field" modular solution enabling the fastest network deployments, quick customer turn-up, application grooming and unequaled long-term cost efficiencies.*