

# MWS 100 SERIES

## Features

### Wireless

The Industry's Highest-Power, Lowest Cost Mesh Network Edge Mobile Wireless Node. High Speed Mobility, State-Of-The-Art Network Persistence, Robust Delivery of Voice, Video and Data. Defined Quality Of Service (QoS) Low Latency and High Throughput Across Multiple Wireless Hops. Dynamic Channel Assignment, Automatic Power Control, Data Rate Selection for Optimum RF Spectrum Efficiency.

### System

Plug-N-Play simplicity, auto-discover and self-configuration. 802.11a or 4.9 GHz DSRC-C (high power) for public safety applications. 802.11g radio for client access. Takes advantage of Strix mesh network Full-Duplex capabilities. Strix Access/One Edge™ extends QoS from Strix mesh networks. Seamless Interoperability with Strix Access/One family of products.

### Management

Remote Management via CLI, HTTP and SNMP. Remote Firmware Updates. Client Monitor and Wireless Neighbor List. Event Logging and Statistics. Layer-2 NAT Monitor. Signal Strength History.

### Security

Support for security/encryption standards including: WPA-PSK, WPA2-PSK, WEP, TKIP, AES. MAC Address Access Control Lists. Supports all L2 and L3 VPNs.

## INDUSTRY'S HIGHEST PERFORMANCE MOBILE WIRELESS MESH EXTENSION

Strix Systems Access/One® Mobile Wireless System (MWS) 100, powered by Strix Access/One Edge™, is the industry's highest performance mobile extension for in-vehicle wired or wireless client connectivity to public safety, railway, municipal, strategic or



tactical Strix wireless broadband mesh networks. The MWS 100 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. Delivering seamless mobility for public safety, emergency medical, fire, industrial, mobile enterprise and many other applications, the MWS offers superior multi-megabit, multi-RF, multi-channel capabilities unique in the industry. Strix adds the latest in Strix Access/One Edge technology into this compact unit with Quality of Service (QoS) for voice, video and data provided by the Strix mesh network and industry-standard security algorithms for secured client connectivity. The MWS 100 offers a four-fold increase in power, penetration and performance for a robust network experience enabling the highest speed connection for wired or wireless laptops, PDA's and other approved 4.9 GHz devices. Utilizing dual-diversity antenna technology, intelligent radio algorithms and intelligent Access/One Edge capabilities, the MWS maximizes signal strength and performance, detecting alternate nodes as it traverses the larger wireless mesh network, optimizing channel selections and instantaneously establishing best network path criteria. As mobile network paths are



selected, mesh links are secured while the mobile mesh node continues the process of optimal path determination. All Strix Access/One devices enable interference mitigation, provide network resiliency, and offer built-in troubleshooting tools and remote upgradeability to support the most demanding environments.

Computer Service Corp.  
644 Strander #11  
Seattle, WA 98188 USA

1-(866)729-7771 Toll Free

Web Site: [www.csc-service.com](http://www.csc-service.com)



[www.csc-service.com](http://www.csc-service.com)

# Technical Specifications

## Wireless

Wireless Standards: IEEE 802.11a/b/g  
Frequency Bands:  
802.11a/4.9 GHz radio is DSRC-C mask compliant  
802.11g 2.4 - 2.497 GHz

(Availability of specific bands is dependent on region model number)

Data Rates (Mbps):  
6, 9, 12, 18, 24, 36, 48, 54

Transmit Power:  
802.11a: 26 dBm  
4.9 GHz: 30 dBm  
802.11b/g: 26 dBm  
Receiver sensitivity:

802.11g:	802.11a/4.9:
-98 dBm @ 1 Mbps	-93 dBm @6 Mbps
-94 dBm @5.5 Mbps	-90 dBm @12 Mbps
-91 dBm @11 Mbps	-84 dBm @24 Mbps
-93 dBm @6 Mbps	-81 dBm @36 Mbps
-91 dBm @12 Mbps	-76 dBm @48 Mbps
-85 dBm @24 Mbps	-74 dBm @54 Mbps
-82 dBm @36 Mbps	
-77 dBm @48 Mbps	
-75 dBm @54 Mbps	

LO (crystal) Frequency Stability:  
+/-20PPM

**Ethernet LAN** 10/100Base-T  
(auto-sensing)

**LAN Indicators** Power and Signal

## Electrical

External Power Supply Input:  
12 - 48 VDC +/- 10%  
Vehicle-rated surge suppression  
10.8 VDC cutoff  
Ethernet with PoE in (802.3 af) 10W max  
power consumption

## Physical

Dimension: 9.5" (24cm)L x 6" (16cm)W x 2"  
(5cm)H  
Weight: 1.5 Lb (0.6 g)  
Temperature: -40°F (-40°C) to 131°F (+55°C)  
Humidity: 95% Non-condensing

**Computer Service Corp**  
644 Strander Blvd #11  
Seattle, WA 98188  
(866) 729-7771

## Operating Modes

802.11a/4.9 STA, 802.11b/g AP  
Cross-subnet mobility  
VLAN mapping for client traffic  
L2 NAT / Client bridge between radios  
and  
Ethernet port

## Security

Wi-Fi Protected Access (WPA-PSK)  
Wi-Fi Protected Access 2 (WPA2-PSK)  
Wireless Equivalency Protocol (WEP)  
Temporal Key Integrity Protocol (TKIP)  
Advanced Encryption Standard (AES)  
MAC Address Access Control Lists

## Remote Management

CLI, HTTP, SNMP  
Local management over Ethernet  
Remote management over network  
management VLAN  
Remote firmware upgrade

## Troubleshooting

Client monitor, wireless neighbor list  
Event logging and statistics  
L2 NAT monitor  
Signal strength history

## Warranty

One year warranty on parts

## Ordering Information

### **MWS100-NA**

*Configured for operation in North America*

### **MWS100-EU**

*Configured for operation in E.U. countries*

### **MWS100-RW**

*Configured for operation in R.W. countries*

Copyright© 2007, Strix Systems, Inc.  
Strix Systems, Strix DMA and Strix  
Systems logos including the wing  
design and Network Without Wires  
are registered trademarks of Strix  
Systems, Inc. All other products and  
services are trademarks of their  
respective companies

