

# AIRLINK™ MP 880W AND 881W GPS RUGGEDIZED IN-VEHICLE GATEWAY AND MOBILE HOTSPOT FOR HSUPA NETWORKS

## KEY FEATURES

### Markets

Law Enforcement  
Emergency Response  
EMS  
Mobile Data  
Field Service

### Product Features

Mil Spec and SAE Certified  
802.11 b/g  
GPS Receiver  
Multiple Interfaces  
I/O Ports  
3 Year Warranty

### Product Benefits

Ultra Rugged  
Mobile Hotspot  
Extensive Vehicle Telemetry  
Remote Management

## TECHNICAL SPECIFICATIONS

### Technology

HSUPA  
With fallback to:  
HSDPA  
UMTS  
EDGE  
GPRS (MS-12)

### Bands

Tri-Band UMTS/HSDPA/HSUPA  
850, 1900, 2100 MHz  
Quad Band GPRS/EDGE  
850, 900, 1800, 1900 MHz

### Environmental Range

Operating temperature:  
-30°C to +70°C (-22°F to +158°F)  
Storage temperature:  
-40°C to +85°C (-40°F to +185°F)

### Power Consumption

Transmit/Receive (Typical/Max):  
235/250 mA  
Idle: 2 mA  
Input Voltage: 9-36 V DC

### Dimensions

176mm x 49mm X 138mm  
900 grams

### Standards/Approvals

FCC  
Industry Canada  
PTCRB  
CE EU  
RoHS  
Mil Spec and SAE Certified (Vibration,  
Shock, Drop, Humidity, Rain/Splash, Sand/  
Dust, Salt Fog, ESD)

### Wi-Fi Features

Wi-Fi 802.11 b/030509g (2.4 GHz) Wireless  
Access Point capability  
Simultaneous Ethernet and Wi-Fi LANs  
enabled routing capability over Wi-Fi and  
Ethernet networks  
WAP security protocols (WEP/WPA/WPA2)

### Host Interface

Ethernet: 10/100 Mbps RJ-45  
USB Type B, USB 1.1/2.0 compliant  
Serial: DB9  
I/O: High-density DB15  
Antenna Connection:  
Primary - TNC  
Receive Diversity - SMA  
GPS - SMA  
WLAN - RP SMA

### Application Interfaces

TCP/IP, UDP/IP, DHCP, HTTP, NMEA, TAIP,  
GPS, Wi-Fi - SMA

### LED Indicators:

Power  
Transmit  
Receive  
GPS

### For More Information

**North America and Asia**  
Tel: +1 510 624 4200  
Fax: +1 510 624 4299

**Europe**  
Tel: +44 20 8 622 3015  
Fax: +44 20 8 622 3206

**E-mail:**  
[MobileandM2MSales@sierrawireless.com](mailto:MobileandM2MSales@sierrawireless.com)  
**Web site:** [www.sierrawireless.com](http://www.sierrawireless.com)

Sierra Wireless, the Sierra Wireless logo, the red wave design and AirLink are trademarks of Sierra Wireless. Heart of the Wireless Machine and AirLink are registered trademarks of Sierra Wireless. Other registered trademarks that appear on this package are the property of the respective owners.  
© 2009 Sierra Wireless, Inc.  
P/N MP880/881W 030509



## SIERRA WIRELESS, CONNECTING PEOPLE AND SYSTEMS TO MOBILE BROADBAND NETWORKS AROUND THE WORLD

Sierra Wireless modems and software connect people all over the world with mobile broadband networks that keep them in touch, informed, and productive from wherever they need to be. The Company offers a diverse product portfolio addressing enterprise, consumer, original equipment manufacturer, machine-to-machine, and specialized vertical industry markets. Sierra Wireless also provides professional services to customers requiring expertise in wireless design, integration, and carrier certification.

For more information, please visit our website, [www.sierrawireless.com](http://www.sierrawireless.com).

SIERRA WIRELESS  
**AIRLINK™**  
**MP 880W & MP 881W GPS**  
(HSUPA NETWORKS)

Create a mobile hotspot

Enhance your response time

Save lives, make a difference



# AIRLINK™ MP 880W AND 881W GPS RUGGEDIZED IN-VEHICLE GATEWAY AND MOBILE HOTSPOT FOR HSUPA NETWORKS

## ■ Industry Leader

Sierra Wireless is the leader in rugged in-vehicle gateways. When police officers patrol the communities, they use Sierra Wireless MP wireless devices to access databases or communicate with dispatchers. Field service technicians use the MP's reliable wireless capabilities to complete their work orders, retrieve customer information, and receive scheduled tasks. The ruggedized design of the MP is ideal for these and other demanding applications.

## ■ Rugged Design

As well as operating in extreme temperatures (-30°C to +70°C), the MP 880W and 881W GPS wireless gateways meet US Military and SAE (Society of Automotive Engineers) specifications for vibration, shock, drop, rain/splash, humidity, sand/dust, and salt fog. The MP 880W and 881W are proven to withstand these harsh environments and is versatile enough to be deployed in industrial applications and in water craft.

## ■ Global Mobility

The MP 880W and 881W GPS provide true global wireless data connectivity. The devices operate on HSUPA networks at peak download speeds of 7.2 Mbps but are backwards compatible to UMTS, EDGE and GPRS networks. If an HSUPA network is not readily available, the MP 880W and 881W GPS will connect to the fastest available GSM network in your area to keep you connected. The MP 880W offers receive diversity for improved fringe performance in Europe and Asia, while MP881W offers receive diversity for improved fringe performance on North American networks.

- WI-FI CAPABILITY FOR CORDLESS CONNECTION WITH PERIPHERALS
- THE INDUSTRY STANDARD FOR RUGGEDIZED WIRELESS VEHICLE-MOUNT GATEWAYS
- BUILT TO HANDLE STRESSFUL ENVIRONMENTS
- HIGH-SPEED DATA CONNECTIONS WITH PEAK DOWNLINK OF 7.2 MBPS
- I/O FUNCTIONALITY WITH TRIGGERS
- GPS MODULE PROVIDES ACCURATE POSITION AND VELOCITY TRACKING

## ■ Wi-Fi Access Point

To offer enhanced versatility, the MP 880W and 881W now have embedded Wi-Fi Wireless Access Point capabilities. The 802.11 b/g AP radio allows 10 Wi-Fi enabled device connections to the MP 880W and 881W offer a mobile WLAN network. The Wireless Access Point has included Wi-Fi security features and can be configured to make installation easy, by eliminating the need for any cabling for a laptop installation in vehicle.

## ■ Fleet Management

The MP 880W and 881W come with Watcher™ software that allows you to easily monitor and manage data connections for a single unit. MP Modem Manager – a feature rich, server-based diagnostic software management tool allowing your network administrator remote monitoring and configuration of your MP fleet.

The primary benefits of MP Modem Manager are:

- Organization of MP devices into customized groups for easy viewing
- Over-the-air updates for firmware, GPS configurations, and AT commands
- Obtaining detailed logs remotely

## ■ Sierra Wireless Reliability and Support

Since 1993, Sierra Wireless has been delivering high quality data products backed by a dedicated field and call center support team. For customers, the AirLink™ brand means reliable, intelligent data devices that enable enterprise customers to enhance their operations while reducing costs and increasing revenues.

Applications	
✓	Public Safety
✓	Law Enforcement
✓	Fire and Rescue
✓	Field Force Automation
✓	Mobile Office
✓	GPS Location

