

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

## KEY FEATURES

### Markets

Law Enforcement  
Emergency Response  
EMS  
Mobile Data  
Field Service

### Product Features

Mil Spec and SAE Certified  
802.11 b/g  
12 Channel GPS  
Multiple Interfaces  
I/O Ports

### Product Benefits

Ultra Rugged  
Mobile Hotspot  
Extensive Vehicle Telemetry  
Remote Management

## TECHNICAL SPECIFICATIONS

### Technology

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

### Bands

Dual-Band 850 MHz & 1900 MHz  
Quad-Band 850 MHz, 900 MHz, 1800 MHz, 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: 2mA  
Input Voltage: 9-36 V DC

### Dimensions

176mm x 49mm X 138mm  
900 grams

### Standards/Approvals

FCC  
Industry Canada  
PCTCRB  
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/g (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

Serial: DB9  
USB Type B, USB 1.1/2.0 compliant  
Ethernet: RJ45 female  
I/O: High-density DB15  
Antenna Connection:  
Primary - TNC  
Receive Diversity - SMA  
GPS - SMA

### Application Interfaces

TCP/IP, UDP/IP, DHCP, HTTP, NMEA, TAIP, GPS

### LED Indicators:

Power  
Transmit  
Receive  
GPS

### For More Information

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

Sierra Wireless is a recognized industry leader in developing wireless data products and enabling software. 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**  
(HSPA NETWORK)

Create a mobile hotspot

Enhance your response time

Save lives, make a difference



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

## ■ Industry Leader

Sierra Wireless is the leader in rugged modem in-vehicle applications. When police officers cruise the streets, they use Sierra Wireless MP wireless modems 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 modems 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 modems 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 MP880 offers receive diversity for improved fringe performance in Europe and Asia, while MP881 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 MODEMS
- BUILT TO HANDLE STRESSFUL ENVIRONMENTS
- HIGH-SPEED DATA CONNECTIONS WITH PEAK DOWNLINK OF 3.6 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 connection 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. For more advanced setup, the system can also be configured as a mobile Wireless Access Point.

## ■ Fleet Management

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

The primary benefits of MP Modem Manager are:

- Organization of MP modems 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

Sierra Wireless has over 13 years experience and a solid reputation for 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

