

The **MARCUS® Radio Module** devices are small, can be easily and quickly attached to a vehicle, and will receive commands, provide GPS position data and status information to the Discrete Wireless Gateway via a wireless network. The GPS and wireless communication modules require antennas. In addition, the device is powered by an externally supplied power supply (7-30 volts). The devices are capable of surviving and functioning while exposed to environmental conditions (heat, humidity), minor power interruptions, vibration, and shock that are common during vehicular travel.

**MARCUS® Radio Module:**

900 MHz MOBITEX OR 800/900 AND 1800/1900 GPRS

Dimensions: 4" x 3" x 1.385"

Weight: 1.00 Pound

Transmit Power: 2.0 Watts @ antenna port

Power: 4.1 – 4.75 volts

(94% Standby, 5% receive, 1% transmit @ 4.5 volts)

Power Consumption (at 12 VDC): 21.5 mA

Operating Temperature: -30c to 60c

Operating Humidity: 5% to 95% non-condensing, 60° C

A 12 volt power cable is included with the hardware

**GPS Antenna:**

General Specifications

Antenna Gain: 24 dB

Power: 3.3 volts @ 8 mA

Mount Type: Magnetic Mount

Covert install also available

Power: 3.3 volts @ 8 mA

Connector: MCX

Dimensions: 1.65" x 1.99" x 0.55"

**Metro Antenna: (RECOMMENDED FOR METRO AREAS)**

General Specifications

Gain: 2.0 dB

Maximum Power: 150 Watts

Mount Type: 3/4" hole mount

Nominal Impedance: 50 Ohms

Antenna Type: Low profile – Vertical

Antenna Height: 2.42" high

**Extended Antenna: (RECOMMENDED NON-METRO AREAS)**

General Specifications

Gain 4.0 dB

Maximum Power: 150 Watts

Mount Type: 3/4" hole mount

Nominal Impedance: 50 Ohms

Antenna Type: Collinear array

Antenna Height: Approx. 13"