

## HyperLink Wireless Tri-Band 3 dBi Magnetic Mount Omni Range Extender Antenna Model: RE1903U

### Applications

- PCS cellular radio applications
- GSM, ISM, WLAN and RFID applications
- Mobile wireless installations
- GPRS/EDGE or CSD, (WAN) connections on GSM 850 and 1800/1900 networks (Sony Ericsson® EDGE / Cingular Wireless® EDGE PC-Card)
- Cellular modem applications

### Features

- Tri-band operation – 800/1800/1900 MHz
- Compact size
- Ideal for indoor or outdoor use
- Magnetic mounting base
- 4 foot low-loss cable with multiple connector options



### Description

This compact magnetic mount 3 dBi Omni antenna provides broad coverage and is designed to operate in 900MHz, 1800MHz and 1900MHz bands. This Tri-Band design eliminates the need to purchase different antennas for each frequency. In the 800MHz - 900MHz band it is ideally suited for GSM, ISM, WLAN, RFID applications in the 1800MHz and 1900MHz bands it can be used with Personal Communication Services (PCS) cellular radio wireless applications. This antenna is also compatible with UMTS 1900 MHz and UMTS 2100 MHz applications.

This antenna can also be used with the following wireless data services (Sierra Wireless AirCard® required):

- Alltel®
- AT&T® Wireless
- Cellular One®
- Sprint PCS®
- SureWest®
- T-Mobile®
- U.S. Cellular®
- Verizon Wireless®

The compact size of this antenna is ideal where Omni-directional coverage and low visibility are desired. Mobile applications including service vehicles, public transportation, law enforcement, mining and construction vehicles, as well as numerous other commercial and industrial applications where mobility is required. The magnetic base is suitable for fixing to vehicles or other metal surfaces as well as sitting on a tabletop or shelf.

## Specifications

### Models

| Model Number | Connector Type                                           |
|--------------|----------------------------------------------------------|
| RE1903U-NM   | N-Male                                                   |
| RE1903U-SM   | SMA-Male                                                 |
| RE1903U-TM   | TNC-Male                                                 |
| RE1903U-SNP  | SMA-Nano/SSMB-Nano (Sierra Wireless AirCard® Compatible) |
| RE1903U-TS9  | TS-9 Plug (for cellular applications)                    |

### Electrical Specifications

|                     |                                                     |
|---------------------|-----------------------------------------------------|
| Frequency Ranges    | 824 - 960 MHz<br>1710 - 1880 MHz<br>1880 - 2100 MHz |
| Gain                | 3 dBi                                               |
| Maximum Input Power | 10 W                                                |
| VSWR                | ≤ 2.0                                               |

### Mechanical Specifications

|                       |                                   |
|-----------------------|-----------------------------------|
| Weight                | 0.15 lbs. (0.07 Kg)               |
| Length                | 11.7 in. (296 mm)                 |
| Base Diameter         | 1.2 in. (30 mm)                   |
| Finish                | Black Plated                      |
| Mounting              | Magnetic                          |
| Polarization          | Vertical                          |
| Operating Temperature | -20° C to 85° C (-4° F to 185° F) |
| RoHS Compliant        | Yes                               |