

Quad Band GSM Wearable Antenna



Features and Benefits

- 800/900/1800/1900 MHz GSM antenna
- Wearable with waterproof cover
- Flexible material
- Unobtrusive – does not hinder vision or movement
- Small and lightweight
- Can be integrated with
 - Helmet
 - Clothing

The **octane**[®] wearable quad band GSM communication antennas are the ideal antenna solution for personnel engaged in covert missions. This body-worn antenna is fabricated using a state-of-the-art thin flexible material that conforms to the user's clothing. The lightweight, unobtrusive design and flush mounting provide the user a friendly alternative to stub or whip antennas. Communications link performance is maintained without hindering user's vision or movement. **octane**[®] offers a helmet mounted antenna product and a body worn antenna product that adds spatial diversity and further enhances link performance. The standard SMA connector and varying cable lengths allow these antennas to easily connect to various GSM communication devices. Their unsurpassed range and coverage performance make the **octane**[®] wearable antenna products the antenna of choice for GSM applications.

Covert Antenna/Radio Carrier



Integrated with Tactical Vest

Characteristics

Frequency	800/900/1800/1900 MHz
Gain[†]	0 dBi
Maximum Power	3 Watts
Pattern	Near omni-directional
Polarization	Vertical
VSWR[†]	< 2:1
Radiator Size (L × W × D)	2.5" × 4.0" × 0.5"
Cable Length	24"
Radiator Weight	< 2 oz
Connector Type	SMA, other

[†]Measurements done on phantom as surrogate body.

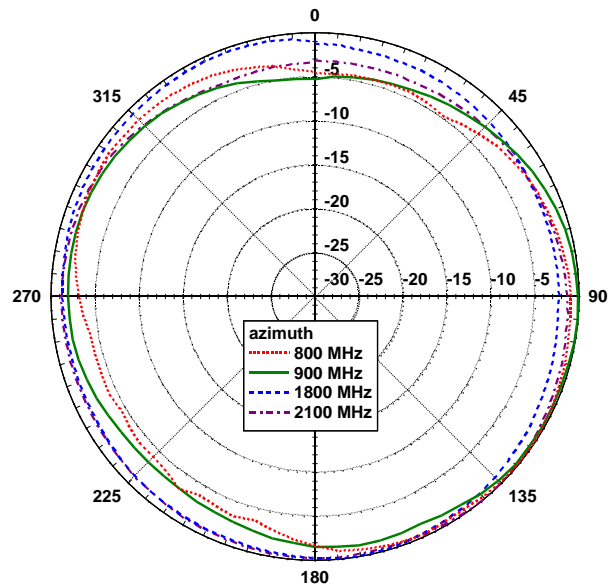
Model: Model: BW-800/900/1800/1900-D



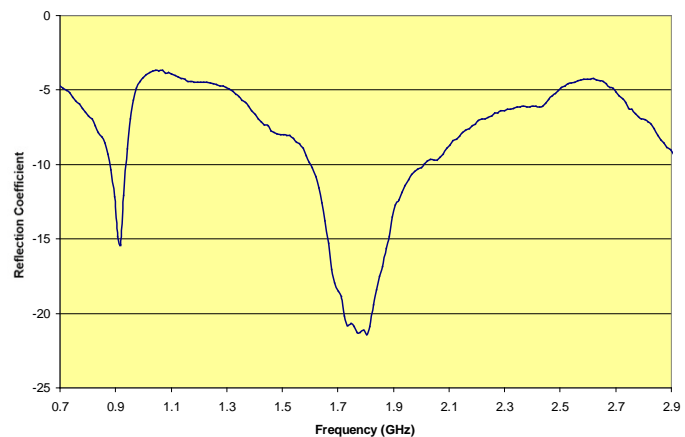
Model Numbers

BW-800/900/1800/1900	Helmet worn antenna
BW-800/900/1800/1900-D	Spatially diverse torso worn antenna

Radiation Pattern[†]



Reflection Coefficient[†]



This antenna is intended for occupational use only to satisfy FCC RF energy exposure requirements. This *octane* antenna has been designed to comply with the IEEE (FCC) exposure limits for occupational/controlled RF exposure environments at usage factors of up to 50% talk–50% listen for public safety radios transmitting up to 3 Watts of power at GSM frequencies.