

800 MHz Voice Communications Wearable Antenna



Features and Benefits

- 800 MHz Voice Communications antenna
- Wearable with waterproof cover
- Flexible material
- Unobtrusive – does not hinder vision or movement
- Small and lightweight
- Can be integrated with
 - Helmet
 - Fire Fighter/Police Clothing

The **octane**[®] wearable 800 MHz voice communications antennas are the ideal antenna solution for first responders engaged in urban missions. This body-worn antenna is fabricated using a state-of-the-art thin flexible material that conforms to the first responder's outer clothing. The unique form factor of this antenna is made possible by incorporating Pharad's patented **Flextenna**[®] flexible antenna technology. The lightweight, unobtrusive design and flush mounting provide the first responder a friendly alternative to stub or whip antennas. Voice communications link performance is maintained without hindering the first responder's vision or movement. **octane**[®] offers a helmet mounted antenna product and a body worn antenna product that add spatial diversity and further enhance link performance. The standard SMA connector and varying cable lengths allow these antennas to easily connect to most 800 MHz voice communication radios. Their unsurpassed range and coverage performance make the **octane**[®] wearable antenna products the antenna of choice for 800 MHz voice communications applications.

Covert Antenna/Radio Carrier



Integrated with Tactical Vest

Characteristics

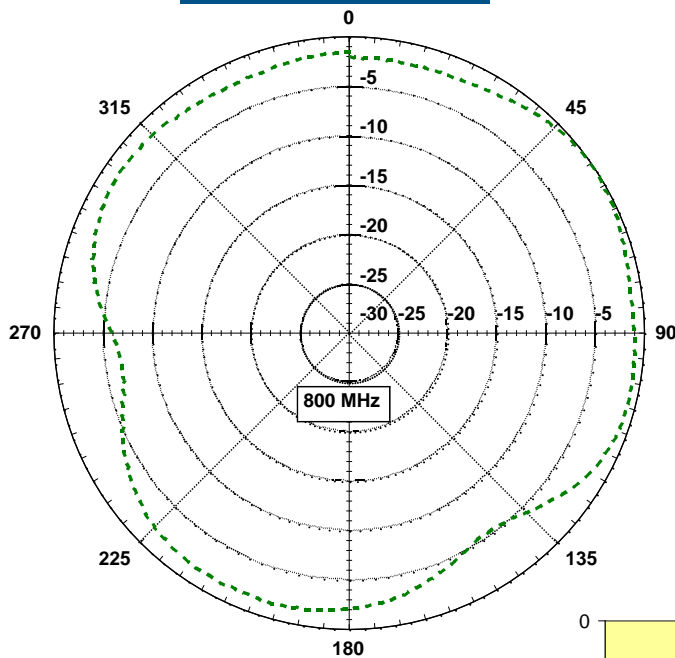
Model Number	BW-800-900
Frequency	800 - 900 MHz
Efficiency	> 85%
Gain[†]	0 dBi
Maximum Power	3 Watts
Pattern	Near omni
Polarization	Vertical
VSWR[†]	< 2:1
Radiator Size (L x W x D)	2.8" x 2.8" x 0.5"
Cable Length	16.5"
Radiator Weight	< 2 oz
Connector Type	SMA, other

[†]Measured on phantom as surrogate body.

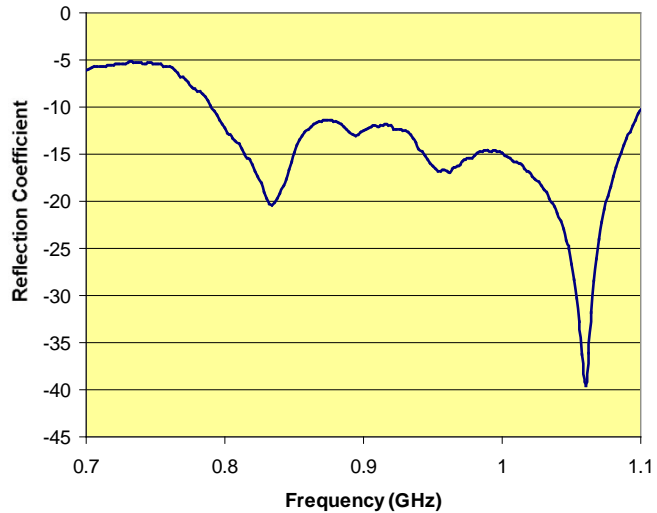


Model Numbers	
BW-800-900	Helmet worn antenna
BW-800-900-D	Spatially diverse torso worn antenna

Radiation Pattern[†]



Reflection Coefficient[†]



This antenna is intended for occupational use only to satisfy FCC RF energy exposure requirements. This Octane Wireless antenna has been designed and tested 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 W of power at 815 MHz and 860 MHz.