

Iridium Wearable Antenna



Features and Benefits

- 1616-1626.5 MHz
- Iridium wearable antenna
- Waterproof cover
- Flexible material
- Cover – unobtrusive
- Small and lightweight
- Can be integrated with
 - Helmet
 - Body Armor Vest

The **octane**[®] wearable Iridium antennas are the ideal antenna solution for users with integrated Iridium radios. This body-worn antenna is fabricated using a state-of-the-art thin flexible material that conforms to the user's outer clothing. The unique form factor of this antenna is made possible by incorporating Pharad's patented **Flexenna**[®] flexible antenna technology. The lightweight, unobtrusive design and flush mounting provide the user a friendly alternative to stub or whip antennas. Voice communications link performance is maintained without hindering the 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 most Iridium radios. Their unsurpassed range and coverage performance make the **octane**[®] wearable antenna products the antenna of choice for Iridium applications.

Integrated with Helmet Cover



Integrated with Armor Vest

Characteristics

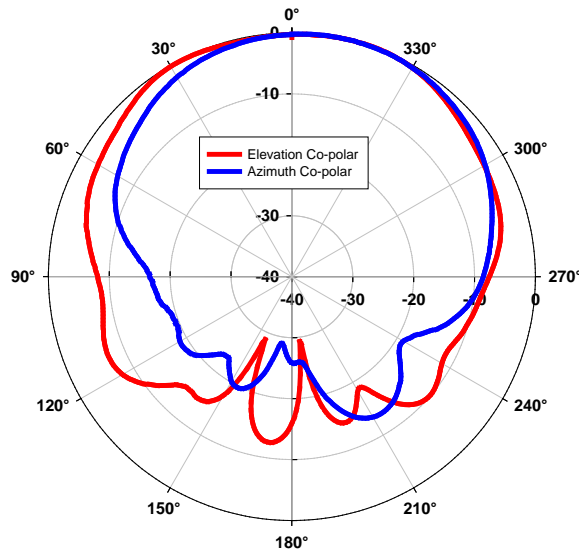
Model #	BW-1616-1627
Frequency	1616 - 1626.5 MHz
Efficiency	> 85%
Gain[†]	> 5 dBc
Pattern	Hemispherical
Polarization	RHCP
VSWR[†]	< 2:1
Radiator Size (L x W x D)	3.5" x 3.5" x 0.3"
Cable Length	HW: 18" TW: 24"
Radiator Weight	< 1.5 ounces
Connector Type	SMA

[†]Measured on phantom as surrogate body.

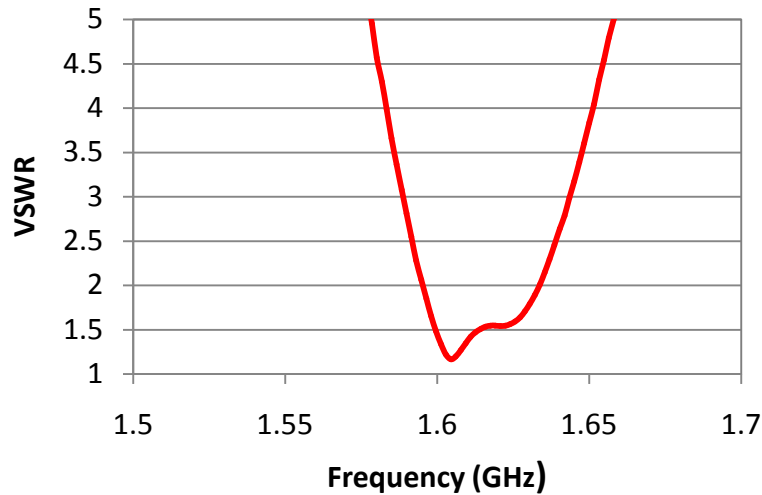


Model Numbers	
BW-1616-1627	Single Radiator
BW-1616-1627-D	Spatially diverse antenna system

Radiation Pattern[†]



VSWR[†]



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 Iridium radios transmitting up to 0.57 W power at 1621 MHz.