

## Iridium Wearable Antenna



### Features and Benefits

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

The **octaneWIRELESS** 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 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. **octaneWIRELESS** 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 **octaneWIRELESS** wearable antenna products the antenna of choice for Iridium applications.

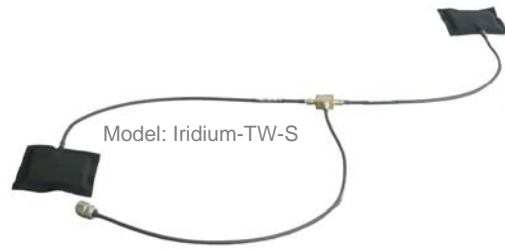
### Integrated with Helmet Cover



### Integrated with Armor Vest

## Characteristics

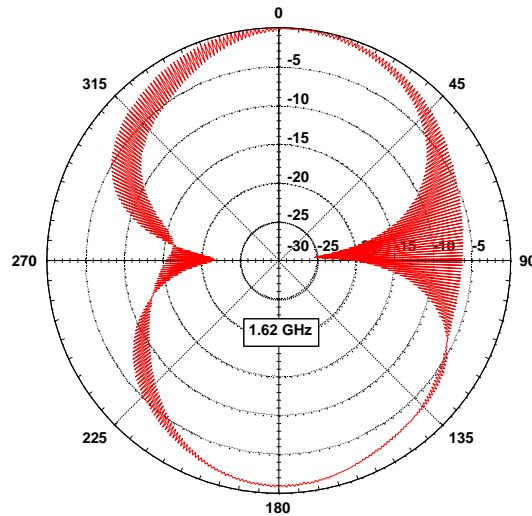
Frequency	1616 - 1626.5 MHz
Efficiency	> 85%
Gain	0 dBi
Pattern	Near omni
Polarization	RHCP
VSWR	< 2:1
Radiator Size (L x W x D)	3.5" x 3.5" x 0.3"
Cable Length	HW: 18" TW: 24"
Radiator Weight	< 1.5 ounces
Connector Type	SMA



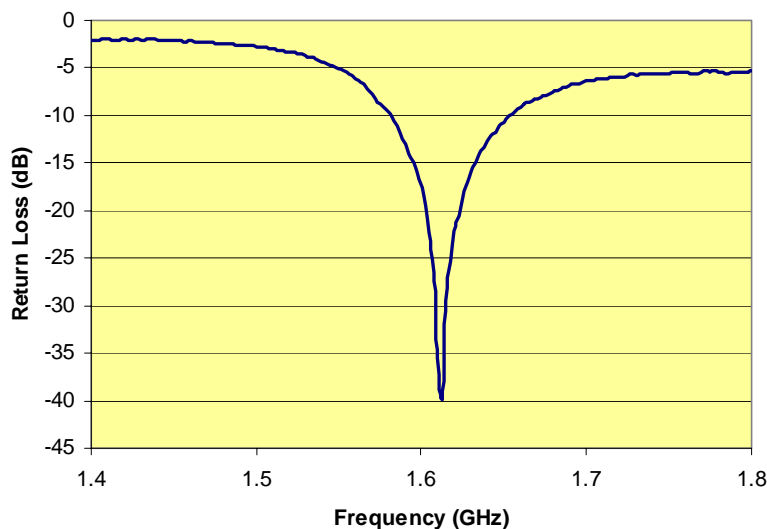
### Model Numbers

Iridium-HW      Helmet antenna  
 Iridium-TW-S    Spatially diverse torso worn antenna

## Radiation Pattern including Axial Ratio



## Typical Return Loss



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.