

DATASHEET

UC-1624-341R Iridium Antenna



The UC-1624-341R is a Quadrifilar Helix Iridium Antenna with dimensions 4 cm/1.5" OD x 11 cm/4.5" H. It is designed for use with L-band (1.6 GHz) Iridium modems and radios. The Iridium network the UC-1624-341R is designed for, consists of a meshed constellation of low earth orbiting satellites (LEO satellites). The constellation is large, enabling real-time, worldwide communications, even in remote locations lacking of a radio infrastructure. Iridium is often the more economical means of real-time communications at sea, in a desert, or in the wilderness. In Asia, Africa, Oceania and Europe, the Thuraya satellite network is a close contender. For more information on Thuraya, go to our UC-1614-341L Thuraya Antenna model)



For embedded and weight sensitive applications, such as self-buoyant air and water platforms, like balloons and buoys, we offer a 30 gram (1 oz) lightweight version: UL-1624-341R-LIGHT (select from above Base/Flange drop down menu). It is enclosed in a light housing, measuring 27.5 mm (1.08") OD x 99 mm (3.9") L, with an SMA Female connector at its bottom center.

Netted Iridium compatibility

The UC-1624-341R Iridium Antenna is compatible with Distributed Tactical Communications System (DTCS), Netted Iridium applications. These enable group communications within an Iridium satellite's spot beam. The UC-1624-341R is broadband enough that it can be used to receive GPS (Global Positioning System) and Iridium signals simultaneously. The connected radios must support this dual capability, such as a DTCS-RO Iridium Handset.

UC-1624-341R Navigation Network compatibilities

Although the antenna is optimized for Iridium operation, its bandwidth will also support operation within the following Navigation Networks: GPS L1 (USA), GLONASS L1 (RF), Galileo E1 (EU), Beidou/Compass B1/E1/E2 (CN). This means that you can use one antenna for both Iridium communications and Navigation.

IRIDIUM COMPATIBLE EQUIPMENT ("ICE") CERTIFIED

NSN: 5985-01-654-7054 (UC-1624-341RS, currently UC-1624-341RSF)

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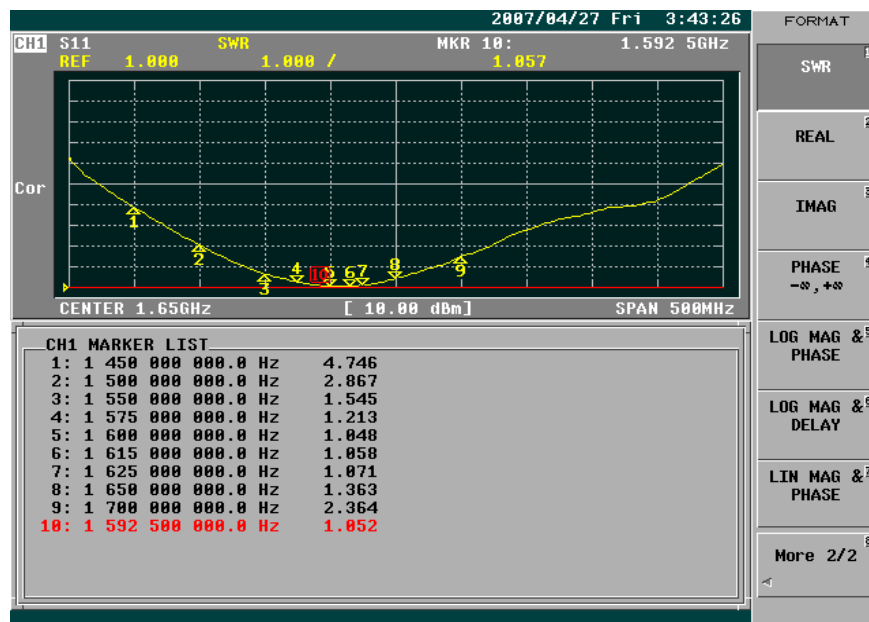
Antenna Specifications

- Frequency range: 1600-1630 MHz (will also receive L1 GPS, 1575 MHz)
- Coverage: Hemispherical
- Polarization: Right-Handed, Circular (AR 3 dB)
- Gain: +3 dBic - [Elevation pattern](#)
- Nominal Impedance: 50 ohm (RF)
- Input Power: 5 Watt CW
- VSWR: 2.0 [VSWR Plot](#)
- Connector: Select from above list (cable version)
- Dimensions:
 - Housing 4 cm (1.5") OD x 11 cm (4.5") h
 - Bottom flange 5 cm (2") OD x 13 mm (0.5") h
- Mounting: Select from list above (Base)
- Operating Temperatures: -40C to +85C
- Water Resistance: water resistant, some versions are waterproof (may be submerged)
- Weight: 250 g / 0.5 lbs
- Shipping Weight: 300 g / 0.6 lbs

NOTES:

- Does not require a ground plane
- Magnetic mount, Suction cup mount and extension/adaptor cables available

VSWR GRAPH



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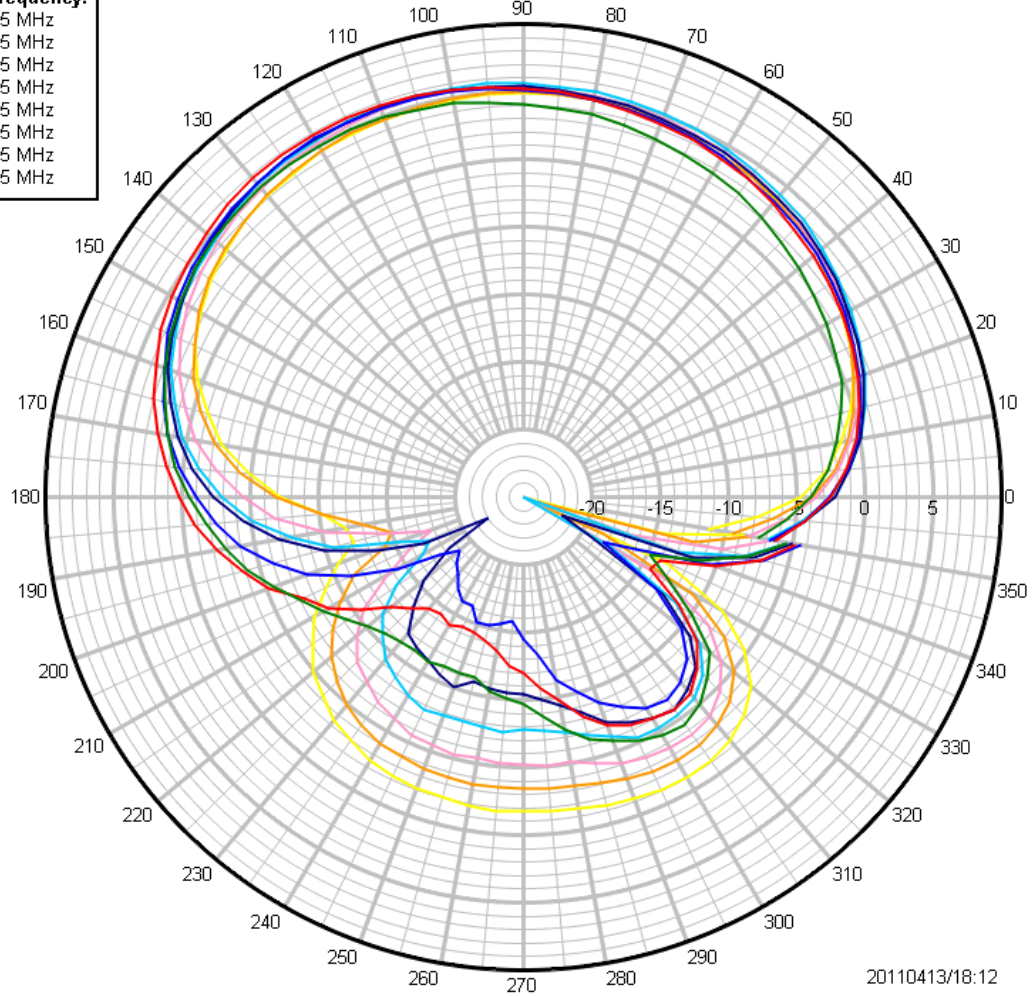
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Radiation Pattern, Elevation Plane -- Iridium Antenna

Antenna model: UC-1624-341R
Units: dBic --- Polarization: RHCP
by: antennas.us

Measurement Frequency:	
Yellow	1565 MHz
Orange	1575 MHz
Pink	1585 MHz
Cyan	1595 MHz
Blue	1605 MHz
Dark Blue	1615 MHz
Red	1625 MHz
Green	1635 MHz



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This product is compatible with the following Antenna Accessories:

- [12 cm \(5"\) Magnetic Base](#)
- [7 cm \(3"\) Magnetic Base](#)
- [9 cm \(3.5"\) Suction Cup](#)

Recommended Cable Assemblies

- [LMR240 - use for cables longer than 1 meter \(3 ft\)](#)
- [LMR195 - use for cables shorter than 1 meter \(3 ft\)](#)

Specify desired length from drop-down menu

Specify desired connector for the device end



Also available
Lightweight Version (30 gram)

Iridium Certifications can be found on the UC-1624-341R product page on our Antennas.us website.

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