

Description

The M1646HCT-P-SMA is a high performance antenna designed for the Iridium network built on proprietary Maxtena Helicore® technology. This technology provides exceptional pattern control, polarization purity and high efficiency in a very compact form factor. The M1646HCT-P-SMA is a screw-on design, featuring an integrated SMA connector and is rated IP-67 when mounted for added protection. This product is designed for applications requiring Iridium satellite reception.

Electrical Specification

Parameter	Specification
Frequency	1616 - 1626 MHz (Iridium)
Polarization	RHCP
Antenna element peak gain	2.6 dBic
Axial Ratio	0.5 dB (Zenith)
Efficiency	61 %
VSWR	1.5 (max)
Impedance	50 Ω
RF Connector	SMA

Mechanical Specification

Parameter	Specification
Antenna Dimensions	Ø22.6 x 61 mm
Operating Temperature	-40 °C to 85 °C
Mounting Type	Connector Mount
Connector	SMA male
Radome/Color	Black
Housing material	ABS/PC
Certificates	IP67



Features

- · Very low axial ratio
- · IP-67 mounted
- · Ultra light weight
- · Ground plane independent

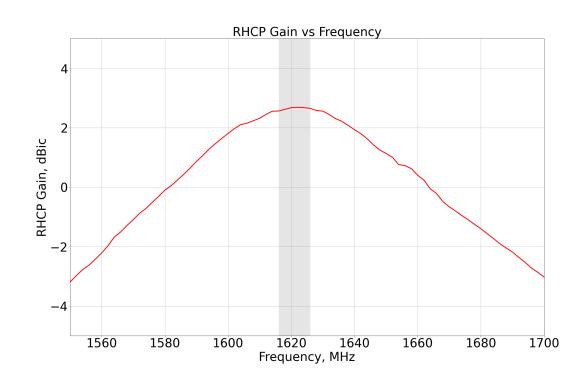
Applications

- · Vehicle and fleet tracking
- · Military & security
- Asset tracking
- · Oil & gas industries
- Navigation devices
- Mining equipment
- LBS & M2M applications
- · Handheld devices
- · Law enforcement

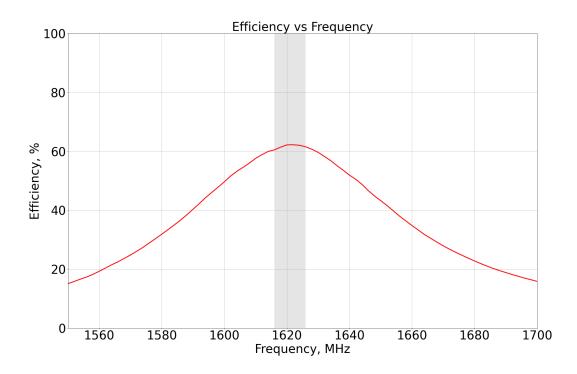


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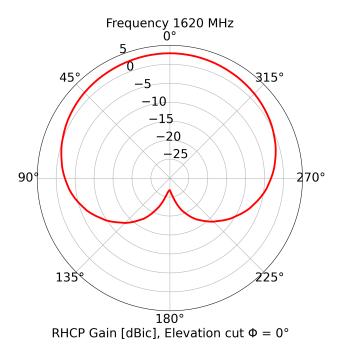
Efficiency

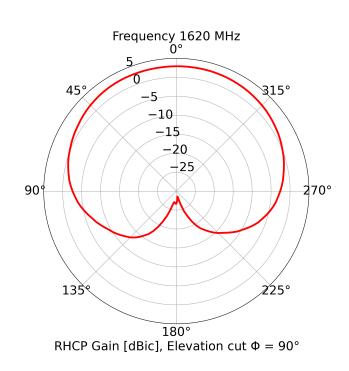


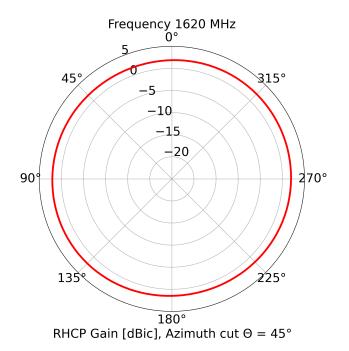


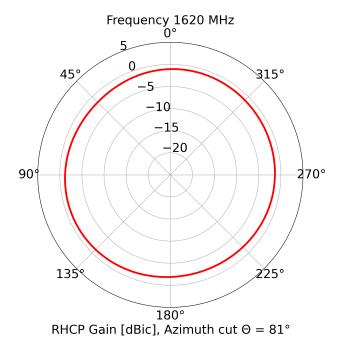
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Radiation Patterns





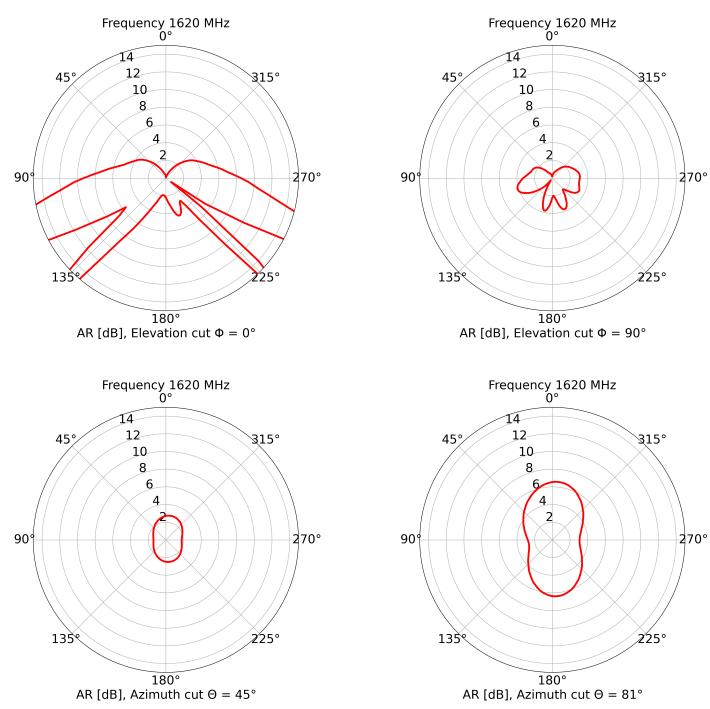






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