



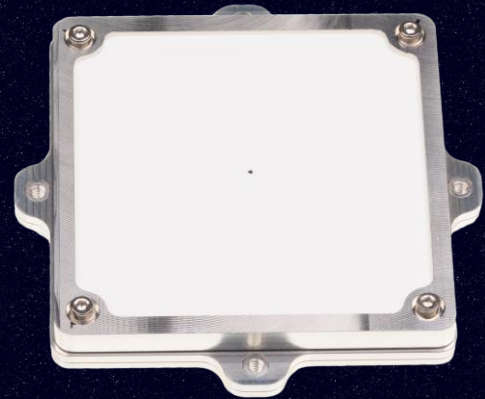
SMALLSAT PAYLOAD TELEMETRY ANTENNA

X-band
Medium gain
Compact size
Tx



ANYWAVES© X-band Antenna is a high quality and compact antenna (<1U). Perfectly suited for SmallSats in LEO, it is optimized for high data rate Payload Telemetry.

ANYWAVES© X-band antenna has a medium gain with excellent axial ratio. With more than 10 dBi gain over +/-10° in all planes, it guarantees a high data rate for your payload telemetry links.



Space Heritage

- ✓ **CNESAdvance Label** : material & processes used have French Space Agency heritage.
- ✓ **1 flight model in orbit since December 2019**: Eyesat 3U (CNES/CSUT JANUS project).

Benefits

- ✓ High data rate **Payload Telemetry**
- ✓ Easily mounted and compact size
- ✓ Quick delivery and high production capability



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Waiver: Fact and figures herein are for information only and do not represent any warranty of any kind



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cnesadvance

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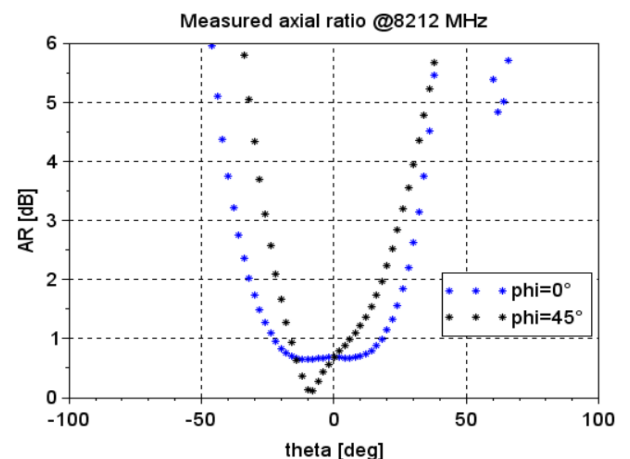
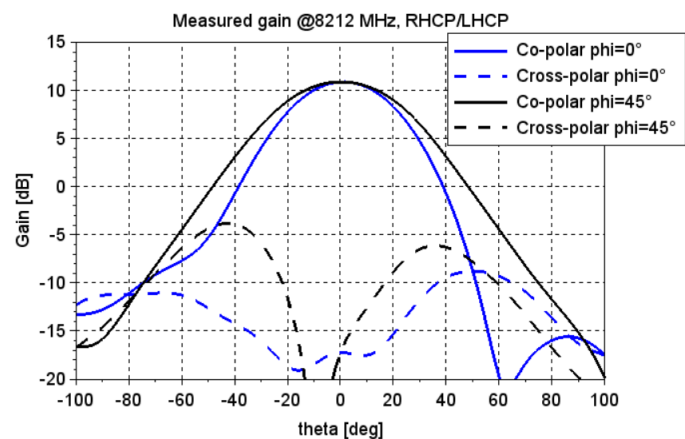
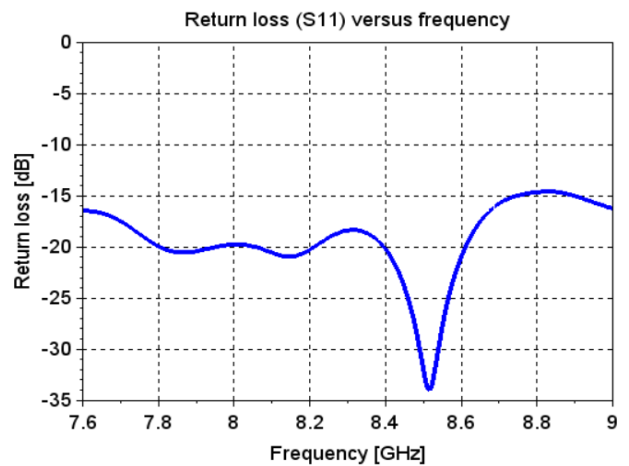
Typical Performance @8.2 GHz

Frequency band	From 8.025 GHz to 8.4 GHz
Bandwidth	> 375 MHz
Polarization	Right or Left Hand Circular Polarization
Return loss	< -18 dB (all frequency band)
Half Power Beam Width	~ 40°
Gain	Gain at boresight > 11.5 dBi Gain at +/-10° > 10 dBi
Axial Ratio	< 3 dB from 0° to +/- 10°

Physical Characteristics

Dimensions	Surface : 72.6 mm * 72.6 mm Height : 11 mm (w/o connector)
Mass	~65 g (including radome and connector)
RF Power	More than 3W
Temperatures	-100°C / + 100°C
Radiation	VESPEL Radome
Electro Static Discharge	ESD free; an anti-ESD paint is applied on the radome
Connector	Coaxial SMA female (50 Ohms)
Mechanical interface	4*M2.5 (threads)

Measured Performance



Model references : X-RHCP-17v1 or X-LHCP-17v1