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# DATA DOWN LINK ANTENNA

## COMPACT ANTENNAS PORTFOLIO

### *FOR SATELLITES*

> PATCH ANTENNA

> **DATA DOWN LINK ANTENNA**

### *THERMAL PROTECTED ANTENNAS*

> RE-ENTRY ANTENNAS

> LAUNCHERS ANTENNAS

### *SERVICES*

> RF & EMC MEASUREMENTS

# DATA DOWN LINK (X-BAND)

## EARTH OBSERVATION

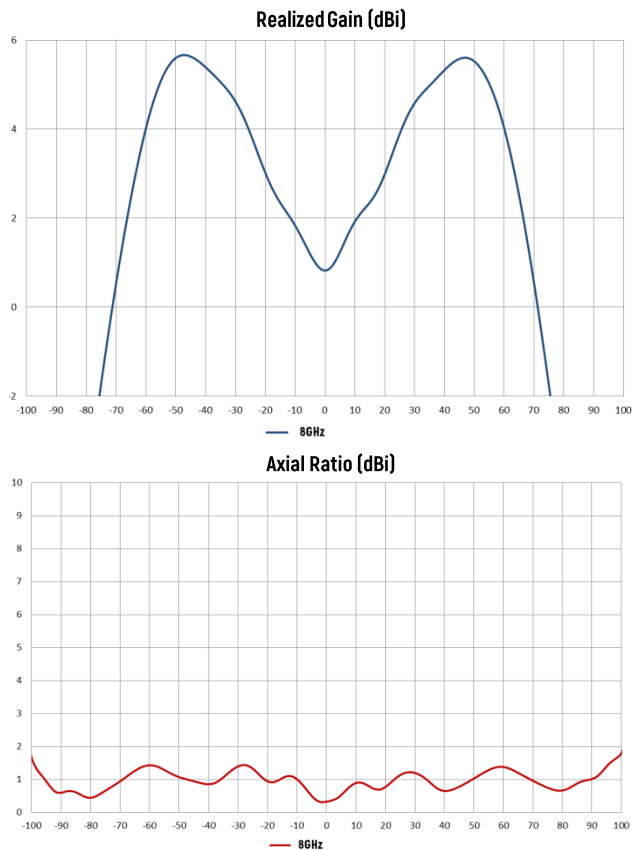
ArianeGroup offers a unique Data Downlink antenna on X-Band with isoflux radiation pattern and simultaneous dual circular polarization.

### Features:

- > **Compact design** for Low Earth Orbit (LEO) micro-satellites
- > **Isoflux** radiation pattern : optimized transmission with ground stations
- > **Dual circular polarization** datarate up to 1Gbit/s
- > **ITAR Free**
- > Excellent **Back to Front ratio** : low interferences with spacecraft structures



CHARACTERISTICS	
RF Performances	
Frequency	8,025-8,400 Ghz
Polarization	Simultaneous dual Circular
Peak gain	>5 dBi at 50°
Axial Ratio	< 2,5dB [-90°;+90°]
Power	>2 x 30W CW
Mechanical Features	
Footprint	240mm diameter
Height	185mm
Mass	1kg



### HIGH PERFORMANCE TECHNOLOGIES

- > Simultaneous dual circular polarization for doubled Datarate (~1Gbit/s)
- > Low interferences with spacecraft structures
- > High reliability and long lifetime

### SPACE ENVIRONMENT

- > Thermal Vacuum
- > Mechanical Shock
- > Vibrations

### CONTACT

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