



HIGH GAIN WIDE BEAMWIDTH PATCH ANTENNA

The PULSAR-SANT and PULSAR-SANTC S-Band patch antennas are designed to be mounted on the nadir facing side of a 3U CubeSat. A wide beamwidth ensures satellite communication through a wide range of elevation angles. Machined from solid aluminium. The PULSAR-SANT/C was built to the CubeSat standard and was designed for advanced missions. The S-Band patch antenna is compatible with the STX and HSTX S-Band transmitter products sold by AAC Clyde Space.

KEY HIGHLIGHTS:

- Left or right hand circular polarization
- Simple integration with structure
- High gain (> 7 dBi)
- Supports both amateur and commercial band



FREQUENCIES

Covers both amateur (PULSAR-SANT) and commercial (PULSAR-SANTC) transmit frequencies.



PERFORMANCE

With high gain (> 7dBi), wide beamwidth (60°). Left and right circularly polarised.



RELIABILITY

Machined from solid aluminium parts. Supporting numerous missions to date; the PULSAR-SANT was part of the UKube-1 mission, the UK Space Agency's first national spacecraft.

TECHNICAL SPECIFICATIONS

General	
Frequency Range	2.2 – 2.3 GHz (SANTC) 2.4 – 2.45 GHz (SANT)
Beamwidth	60°
Temperature	-40°C to +85°C
Mass	< 50 g
Gain	7 dBi
S ¹¹	< -15 dB
Connector	SMA female
Design Life	> 2 years in LEO
Dimensions	1U form factor

To make an enquiry, request a quotation or learn about AAC Clyde Space's other products and services, please contact:

enquiries@aac-clydespace.com



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