

# Waveguide Sector Antenna

2.4 -2.5 GHz

Product code: SECT-A0010

The waveguide sector antenna can be operated as a high-power transmit antenna (TX) or a receive antenna (RX) or for both transmit and receive (TX/RX) as the application dictates between the range of frequencies from 2400 MHz to 2500 MHz.

When mounted exactly vertically, and oriented toward a distant target, the region of high illumination will encompass an azimuth span of 80 degrees from centre and an elevation span of 10 degrees from centre.

## Features:

- High power handling
- High efficiency
- High gain (15 to 16 dBi sector)
- Inherent lightning protection
- DC-grounded feed prevents static build-up
- Low VSWR (typically 1.3 in the full band)
- Weatherproof
- End-fed design for easy cabling
- Can be mounted on mast or against a wall as desired
- Robust design with no vulnerable radiating elements
- Lightweight (aluminium) and good high wind tolerance

## Application areas:

- Point to point communication
- Point to multipoint distribution



**Specifications:**

**Product Code:**

**SECT-A0010**

N(f) connector

**Electrical:**

Gain (max.)	16 dBi (± 0.5 dB)
Gain (min. over band)	15.5 dBi (± 0.5 dB)
Range	2.4 - 2.5 GHz
VSWR	< 1.5:1
Front to back ratio	15 dB
E-plane 3 dB beamwidth	10° (± 1°)
H-plane 3 dB beamwidth	80° (± 1°)
Maximum power handling	400 W
Input impedance	50 Ohm (nominal)
Polarisation	Linear Horizontal

**Mechanical:**

Mounting	50 mm pole mount or wall mount
Dimensions (l x w x h)	1000 x 102 x 60mm (excluding bracket)
Weight	2.46 kg (excluding bracket)
Operating Temperature	-10 to 60 Degrees Celsius
UV Stability	> 2 years
Operational weather proof	Yes

**VSWR and Gain Patterns**

