POWERTEC | DATASHEET | UNCONTROLLED WHEN PRINTED PUBLIC | July 27, 2025 06:12

Page



Powertec Wireless Technology ABN: 42 082 948 463 PO Box 1034, Ashmore City Queensland, Australia, 4214 sales@powertec.com.au 1300 769 378

# ZCG UHF Base Station High Gain Collinear Antenna, 477 MHz, 8 dBi, N Female

SKU ACC-ZC-00043 MPN ZN2-77-06-AC

### Description

The ZCG UHF Base Station High Gain Collinear Antenna (SKU: ACC-ZC-00043) is engineered for robust performance in UHF communication systems. Operating at 477 MHz with an impressive 8 dBi gain, this antenna is ideal for applications requiring reliable long-range signal extension and coverage.

Constructed from durable aluminium, the antenna boasts an IP65 rating, ensuring resilience against harsh environmental conditions. It operates efficiently in temperatures ranging from -40°C to 80°C, making it suitable for varied outdoor applications. The antenna supports a 1x1 SISO configuration, featuring a single N Female RF connection, which simplifies integration into existing systems.

Certified to ISO 9001 standards, this antenna embodies high-quality manufacturing processes. The antenna functions effectively within a frequency range of 380 MHz to 520 MHz, supporting up to 150 W of input power with a 50  $\Omega$  impedance. Its vertical polarisation...

#### Read More



#### ZCG Scalar

ZCG Scalar<sup>™</sup> is a world class radio frequency antenna designer, manufacturer and consulting organisation that offer an integrated approach to identifying RF solutions in partnership with client needs.

ZCG Scalar<sup>™</sup> is an Australian owned business operating since 1970. We manufacture hundreds of antenna models to suit your RF communication and broadcasting requirements. The design and development of ...

## **RF** Specification

### Y400 Round Boom Yagi

Start Frequency 380 MHz **Stop Frequency** 520 MHz Max. Input Power 150 W Polarisation Vertical (V) Input Impedance 50 Ω **RF** Connectors Ports RF Interface Body Shape 1 N Female Straight Frequency Test Data Start Freg. Stop Freg. Peak Gain VSWR

	etep ineq.		
1Hz	520 MHz	9 dBi	< 1.5:1
1Hz	520 MHz	11.5 dBi	< 1.5:1
1Hz	520 MHz	14 dBi	< 1.5:1
	IHz IHz IHz	IHz 520 MHz IHz 520 MHz IHz 520 MHz IHz 520 MHz	IHz 520 MHz 9 dBi IHz 520 MHz 11.5 dBi IHz 520 MHz 14 dBi

# **Physical Specification**

```
Subtype
Yagi
Input Ports
1
MIMO
<u>1x1 SISO</u>
Min. Operating Temperature
-40 °C
Max. Operating Temperature
80 °C
Dimensions
1200 x 47 x 400
Ingress Protection
```

IP65 Materials Aluminium Weight 0.6 kg Compliance/Certifications ISO 9001 Quality Management

Disclaimer: Although care has been taken to ensure the accuracy, completeness and reliability of the information provided, Powertec assumes no responsibility therefore. The user of the information agrees that the information is subject to change without notice. Powertec assumes no responsibility for the consequences of use of such information, nor for any infringement of third party intellectual property rights which may result from its use. IN NO EVENT SHALL POWERTEC BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, OR INCIDENTAL DAMAGE RESULTING FROM, ARISING OUT OF OR IN CONNECTION WITH THE USE OF THE INFORMATION.

