

# Type 4 X/Y Tracking Antenna

## KEY FEATURES

- X/Y axis configuration
- No 'cone of silence' at zenith
- Ideal for tracking LEO, MEO and GEO spacecraft
- Ethernet (TCP/IP) antenna control and monitoring
- Bespoke software control
- Low power consumption
- High reliability

## AVAILABLE OPTIONS

- Dual frequency / polarization
- High performance LNAs
- Full RF chain:
  - Frequency converters
  - Spectrum analysers
  - RF switching
  - Demodulators/modems
  - Uplink amplifiers
- Anti-icing
- Webcams
- Vehicle mountable
- Radomes



## MECHANICAL

|                          |  |
|--------------------------|--|
| Antenna Mount            | Type 4 X/Y   |
| Aperture Size            | 4.5m—6.1m (Outdoor System)<br>4.5m—7.3m (In-Radome System) |
| Pointing Accuracy        | <0.1°  |
| Position Step Resolution | 0.00004°   |
| Acceleration             | 10°/s <sup>2</sup> max                                     |
| Velocity                 | 4°/s typical   |
| Degrees of Freedom       | 2 (X and Y)  |
| Axis Travel              | Full hemispheric coverage                                  |
| Horizon limits           | -2° typical  |

## CONTROL SYSTEM

|           |                      |
|-----------|----------------------|
| Interface | Ethernet             |
| Power     | 110/240Vac, 1ph, 20A |

## RF

|                    |                                   |
|--------------------|-----------------------------------|
| Frequency Range    | L, S, X, C, Ku and Ka Band        |
| Polarisation       | LHCP and/or RHCP                  |
| Feed Configuration | Prime Focus or Cassegrain         |
| Subreflector       | Reflective or Frequency Selective |
| Performance        | Please enquire                    |

## ENVIRONMENTAL

|              |   |
|--------------|---|
| Wind Speed   | 90km/h wind (Operational) <sup>(1)</sup><br>200km/h wind (Survival) |
| Temperature  | -40°C—+50°C (Operational) <sup>(1)</sup><br>-45°C—+60°C (Survival)  |
| Humidity     | 100% Relative Humidity  |
| Driving Rain | Upto 10cm/hr  |

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(1) Optional measures (heaters, radomes, HVACs) can be taken to improve operational environmental limits