



Top axis unbolts from the lower axis at this point

Reflector Mounting plate can accept up to a 2.4 meter dish

Emergency Stop, Power On/Off Switch and Anemometer disconnect with the energy chain and cables for easy transportation

Lower axis unbolts from the quad pod at this point

T1 Deployable X/Y Antenna

Folding Quad-Pod can also be equipped with weight trays for various overturning moment requirements

T1 Deployable X/Y System

Based on our very successful and reliable Type 1 X/Y system, this variant offers capacity to 2.4m in a deployable format suitable for L, S, X, C, Ku, Ka and Q bands. This is achieved by providing a folding quad-pod base and split casings to provide easily assembled sub components at manageable weights.

- X/Y axis configuration
- No 'cone of silence' (keyhole) at zenith
- Ideal for tracking LEO, MEO and GEO spacecraft
- Lights Out Monitor & Control and Scheduling
- Custom software control
- Low power consumption
- High reliability

Specifications

Available Options:

- Dual frequency / polarization
- High performance LNAs or LNBs
- Full RF chain:
 - » Frequency converters
 - » Spectrum analyzers
 - » RF switching
 - » Demodulators/modems
 - » Uplink amplifiers
 - » Carbon Fiber Reflector (up to 2.4m)
 - » Fiber optic communications
 - » Feed configurations

- Anti-icing
- Webcams
- Vehicle mountable
- Installation services
- Flight Cases

Mechanical/Safety	
Antenna Mount (split case deployable)	Type 1 X/Y
Aperture Size	.8m – 2.4m
Pointing Accuracy	<.05°
Position Step Resolution	0.00004°
Acceleration	10°/s ² (upper/lower axis; faster if needed)
Velocity	4°/s typical (upper/lower axis; faster if needed)
Degrees of Freedom	2 (X and Y)
Axis Travel	Full hemispheric coverage
Horizon limits	-1° typical
Emergency Stop	Antenna mounted panic button
Anemometer	High wind self stow
Control System	
Interface	Ethernet <ul style="list-style-type: none"> » 110/240Vac, 1ph, 1000W » Satellite scheduler with TLE propagator » Complete system hardware M&C » Remote lights out interfaces include HTTP, SNMP, XML
Power	
Operating System	Linux based
RF (optional)	
Frequency Range	L, S, X, C, Ku, Ka, and Q Band
Polarization	LHCP and/or RHCP
Feed Configuration	Prime Focus and Cassegrain ⁽¹⁾
Environmental	
Wind Speed	80 km/hr wind (Operational) 200 km/hr wind (Survivable)
Temperature	-40°C - +60°C (Operational) ⁽²⁾
Humidity	100% Relative Humidity
Driving Rain	Up to 10 cm/hr
Structural	
Weight	Upper Axis – 75kg Lower Axis – 75kg Quad-pod–50kg
Leveling Jacks and Weight Trays	

(1) Many other feed configurations available upon request
 (2) Optional measures (heaters, radomes, HVACs) can be taken to improve operational environmental limits

Contact

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