

T1 Deployable X/Y System

Based on our 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 subcomponents 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°/s² (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
Power	 » 110/240Vac, 1ph, 1000W » Satellite scheduler with TLE propagator » Complete system hardware M&C » Remote lights out interfaces include HTTP, SNMP, XML
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

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

About Us

Comtech Telecommunications Corp. is a leading global technology company providing terrestrial and wireless network solutions, next-generation 9-1-1 emergency services, satellite and space communications technologies, and cloud native solutions to commercial and government customers around the world. Our unique culture of innovation and employee empowerment unleashes a relentless passion for customer success. With multiple facilities located in technology corridors throughout the United States and the world, Comtech leverages its global presence, technology leadership and decades of experience to create the world's most innovative communications solutions. For more information visit comtech.com.

Leveling Jacks and Weight Trays

Note: Technical specifications are subject to change without notice. \\

Contact

624 Krona Drive, Suite 170 Plano, TX 75074 Email: sca-sales@comtech.com Phone: 469-330-5020

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