



T1 Deployable X/Y Antenna

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	1.8m – 2.4m
Pointing Accuracy	<0.1°
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
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
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

About Comtech

Comtech Telecommunications Corp. (Nasdaq: CMTL) designs, develops, produces and markets innovative products, systems and services for advanced communications solutions. The Company sells products to a diverse customer base in the global commercial and government communications markets. For more information visit www.comtechtel.com.

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