

Radomes



Space & Component Technology | Radomes

Comtech's tuned sandwich, spaceframe and geodesic radomes provide exceptional RF performance, ease of installation and are a cost-effective alternative to higher priced systems. Our radome design and manufacturing technology allows quick delivery of both standard and custom systems engineered to meet a customer's specifications even in the harshest environments. These systems can be mounted directly to a flat concrete pad or on to an existing ring wall. System configuration flexibility throughout the product line is unparalleled.

Features

- Low Electrical Loss
 - Tuned panels and joints
- Hydrophobic Surfaces
 - Standard gel coat
 - Tedlar
 - PTFE (standard on spaceframe radomes)
- Design Life: 20+ years
- Integrated Ring Wall
- Full Engineering Support
- Installation Services
- Maintenance Programs

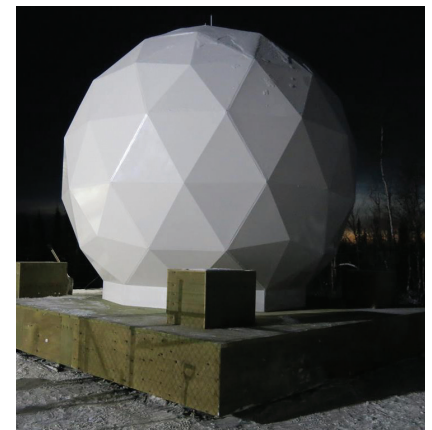
Available Options

- Lightning Protection
- Aircraft Warning Lights
- Passage Doors
- Air Conditioners
- Dehumidifiers
- Blower Ventilation Systems
- Snow Ropes
- Internal Lighting
- Heating
- Tedlar Coatings
- High Wind models
- Tropical package

Benefits

- Preservation of hardware by elimination of weather effects; thus extending the operational life of the antenna and pedestal
- Provides operational improvements such as pointing and tracking accuracy
- Provides operational maintenance cost reductions by reducing system wear due to wind effects
- Conceals antenna and sensitive electronics equipment

Mechanical	
Radome Diameters	1.5 meters – 20 meters (larger on request)
Sandwich	'A' sandwich consisting of three layers (i.e. two skins with a foam core)
	'C' sandwich consisting of five layers (i.e., two externally facing skins, two foam cores, and a central layer)
Spaceframe	'S,' a space frame design using a fiberglass framing with a reinforced PTFE-impregnated glass fiber (Teflon) fabric panel (ideal for wideband applications)
Geodesic Design	Stellated 6/5 hexagon/pentagon
Tuned for the Frequency or Frequencies of Interest	
RF	
Frequency Range	L, S, X, C, Ku, Ka, Q, V, W Band
Typical Insertion Loss (all losses depend on frequencies and bandwidth)	<0.1-0.15 dB @ S-band
	0.20-0.35 dB @ X-band
	0.2-0.45 dB @ Ku-band
	0.1 dB @ Ka/ Q /V/W-band (PTFE material) exact losses vary with frequency
Environmental	
Wind Speed	Sandwich – (A or C): 240 km/hr (150 mph)
	Sandwich – (A or C) : 300 km/hr (190 mph) (enhanced)
	Spaceframe – 200 km/hr (125 mph)
Temperature Range	-50 C to +60 C (-58 F to +140 F)
Humidity	100% Relative Humidity



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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