

Direcstar WX Series Autodeploy VSAT Antennas

The **Direcstar WX Series** vehicle-mount antennas are the toughest, highest quality, lowest cost, auto-deploy satellite antennas in the market today. The **WX series** antennas are capable of pointing at any satellite with an accuracy of 0.1 degrees in less

than 2 mins. The antennas stow into a folded position for easy travel, on the roof of emergency (FEMA), Satellite News Gathering (SNG) or other vehicles, trailers and busses. Made with the strongest, most rugged actuators in the industry, the **WX series** antennas are built for maximum reliability. The **WX series** antennas are available in 0.98M, 1.2M and 1.8M versions and are integrated and tested with all common satellite modems offering flexibility and scalability for the

emergency, energy and enterprise markets.







WX Control Unit

Direcstar WX1200

Direcstar WX1800

WX Series Benefits

•Heavy duty construction to withstand extreme environments (humidity, temperature, dust)	•Perfect for emergency vehicle & other enterprise applications
•2-way communication capability for simultaneous data, video and voice	 Ideal for low cost SNG applications
•Simple single button operation requiring no external PC	 Auto acquisition and peaking of target satellite
Easy vehicle installation	•Easy field repair
•Little or no periodic maintenance	•Quick deployment
Rack-mountable controller included	•Low cost spares kit
•FCC part 25.209 compliant	•Fastest satellite acquisition in the industry
•Built in DVB receiver, GPS, compass and tilt sensors	 Integrated & tested with multiple BUCs ranging from 1 to 200Watts

When terrestrial methods of communication are not available due to location or other circumstances, or when high data rates are required in short notice, VSAT systems can deliver reliable and cost effective data, voice and video connectivity. From mobile banking applications, oil and gass platform installations,

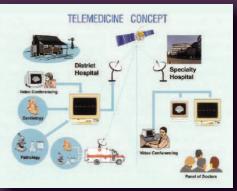
telemedicine applications, first responce teams, military deployments to just

plain mobile internet access, the **WX series** antennas can outperform competition in quality, durability and price.



Direcstar WX1200 stowed





Servicesat LTD - Servicesat is the trading name for Data Transmission Corporation LTD, Guernsey



Direcstar WX Series

General Information

Reflector type

Optics offset Buc supported* Polarization* Mount Geometry

Stowed Dimensions Max Deployed Height Mount Rail Width Weight

Mechanical

RF

Dimensions

Range of motion: Azimuth Elevation Polarization Speed: Deploying Elevation Stowing Elevation Deploying Azimuth Time to Acquisition Motors: Elevation Azimuth Polarization Drive Override

Tx Interface

Rx Interface Frequency Range: Rx Tx Gain (Midband): Rx Tx VSWR Rx & Tx VSWR Rx & Tx Rx Beamwidth: Rx Tx Radiation Pattern Compliance Antenna Noise Temperature Cross Pol Isolation on Axis Rx & Tx (Minimum) Isolation Port to Port (Minimum): Rx

Environmental

Wind: Operational Deployed Survival Deployed Survival Stowed Temperature: Operational Survival Snow Load

Electrical

Controller Dimensions Power Supply: Input Running Load Output Electrical Data Interface* Transmit (Tx)* Receive (Rx)* Sensors



WX980

0.98 M Glass Fiber Reinforced Polyester SMC Prime Focus Offset Feed 6.8Kg / 30.48cm L x 19.7cm W x 14cm H Cross-Pol Elevation over Azimuth

38.1cm H x 179cm L x 100.3cm W 181.6cm 33cm 63.5Kg Approx

375° (+/- 187.5°) 5° to 90° Operational +/- 90° 4.6° Per Second 5.0° Per Second 7.5° Per Second < 2 minutes (Typical) 24V HD Linear Actuator (0.1° Resolution) 24V HD Brushless Motor (0.1° Resolution) 24V HD Brushless Motor (0.1° Resolution) 24V HD Brushless Motor (0.1° Resolution)

Waveguide - 3' WR75 Flange Flexible and Twistable Waveguide WR75 Flange 10.95 - 12.75 Ghz 13.75 - 14.50 Ghz 39.8 dBi 41.3 dBi 1.3:1 1.8° (-3 dB), 3.3° (-10 dB) 1.5° (-3 dB), 2.8° (-10 dB) FCC § 25.209 47K (20° EL), 46K (30° EL) 30 dB 85 dB

> 80 + Km/h 121 Km/h 241 Km/h -40°F to 127°F (-40°C to +50°C) -58°F to 176°F (-50°C to +80°C) 20.3cm deep (@16Kg/cu. mt)

2U 19" Rack Mountable 100-250V 3A Max 47-63Hz 300W Max 48V 6.7A Max RG6 60" (18.25 m) RG6 Compression F Connector GPS Compass +/- 15° Titt +/- 0.5°



WX1200

1.2 M 0.8 F/D Glass Fiber Reinforced Polyester SMC Prime Focus Offset Feed 6.8Kg / 30.48cm L x 19.7cm W x 14cm H Cross-Pol Elevation over Azimuth

38.1cm H x 217.8cm L x 124.5cm W 213.4cm 33cm 68Kg Approx

375° (+/- 187.5°) 5° to 100° Operational +/- 90° 4.6° Per Second 5.0° Per Second 7.5° Per Second < 2 minutes (Typical) 24V HD Linear Actuator (0.1° Resolution) 24V HD Brushless Motor (0.1° Resolution) 24V HD Brushless Motor (0.1° Resolution) 24V HD Brushless Motor (0.1° Resolution)

Waveguide - 3' WR75 Flange Flexible and Twistable Waveguide WR75 Flange 10.95 - 12.75 Ghz 13.75 - 14.50 Ghz 41.5 dBi 43 dBi 1.3:1 1.4° (-3 dB), 2.4° (-10 dB) 1.2° (-3 dB), 2.1° (-10 dB) FCC § 25.209 46K (20° EL), 43K (30° EL) 30 dB 35 dB 80 dB

80 + Km/h 121 Km/h 241 Km/h -40°F to 127°F (-40°C to +50°C) -58°F to 176°F (-50°C to +80°C) 20.3cm deep (@16Kg/cu.mt)

2U 19" Rack Mountable 100-250V 3A Max 47-63Hz 300W Max 48V 6.7A Max RG6 60' (18.25 m) RG6 Compression F Connector GPS Compass +/- 15° Tilt +/- 0.5°



WX1800

1.8 M Glass Fiber Reinforced Polyester SMC Prime Focus Offset Feed 2.72Kg / 18.67cm L x 19.7cm W x 7.62cm H Cross-Pol Elevation over Azimuth

> 24" H x 274.3cm L x 181cm W 247.7cm 33cm 113.4Kg Approx

375° (+/- 187.5°) 11.6° to 118° Operational +/- 90° 4.6° Per Second 5.0° Per Second 7.5° Per Second < 2 minutes (Typical) 36V HD Linear Actuator (0.1° Resolution) 24V HD Brushless Motor (0.1° Resolution) 24V HD Brushless Motor (0.1° Resolution) Electrical Elevation, Manual for A2 and SK

Waveguide - 3' WR75 Flange Flexible and Twistable Waveguide WR75 Flange 10.95 - 12.75 Ghz 13.75 - 14.50 Ghz 45.3 dBi 1.3:1 tx / 1.5:1 1.0° (-3 dB), 2.4° (-10 dB) 0.8° (-3 dB), 2.1° (-10 dB) FCC § 25.209 28K (20° EL), 23K (30° EL) 30 dB 35 dB 80 dB

> 56 Km/h 121 Km/h 241 Km/h -40°F to 127°F (-40°C to +50°C) -58°F to 176°F (-50°C to +80°C) 20.3cm deep (@16Kg/cu. mt)

2U 19" Rack Mountable 100-250V 3A Max 47-63Hz 300W Max 48V 6.7A Max RG6 60' (18.25 m) RG6 Compression F Connector GPS Compass +/- 15° Tilt +/- 0.5°

*Options

Larger BUCs supported using High power BUC mounting kit and waveguide • Co-Pol • Thermal Formed Rear Cover • RG11 Cables

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