



Drive-Away VSAT Antenna



Features

- 0.9m and 1.2m Reflector options
- Compact and Robust
- Auto-Pointing IPOINT™ Controller
- Can be Operated by Anyone
- Acquires in less than < 3 minutes
- Available with integrated DVB-RCS Modem
- Simple Operation – Requires no Satellite Communication Expertise
- Acquires the satellite within minutes
- Completely automatic one button acquisition of required satellite
- Low cost, high performance and reliable satellite acquisition
- Ultra-Compact
- Dual Optic SMC Antenna

The ENTERPRISE90™ & ENTERPRISE120™ antennas are high quality roof mount systems. These antennas encompass the drive control, positioning hardware and amplifier into the antenna enclosure, making the system a robust standalone sub-assembly ready to install onto almost any vehicle.

The system is simple to install, set up and use. Following relocation of the antenna, the system will reliably and accurately locate and lock on to the designated traffic satellite rapidly within minutes. The IPOINT™ Auto Acquisition Controller uses industry standard position transducers and a sophisticated pattern recognition algorithm to confirm and refine its heading information using visible satellites. The controller is mounted on the antenna structure with a separate control panel with integral power supply and in a rack mount unit for mounting within the equipment area.



IPOINT™ specifications

Operational modes	Auto-acquire Unstow Stow Configure
LNB Power supply	Can provide 13/18VDC switchable at up to 600mA on RF cable to power LNB and diseq tones.
RF Signal Input	L-band signal from LNB Level -70 to -20 dBm
Display	2 line LCD display giving Mode, Signal Level Indication and Position Information
Motor Drive	Can drive all motors at 24VDC up to 12A. Pulse width modulation from 10% to 100%.
Limit Switches	Stow Azimuth and Elevation switches

Options

Hand Held Controller	Hand Held Controller with LCD display
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Physical

Temperature	-20°C to 55°C - Operating
Range	-30°C to 85°C - Non Operating (storage)
Humidity	5% to 95% RH non condensing - Operating 0% to 99% RH non condensing - Non Operating (storage)
Altitude	10,000 feet max
Input Power	110 or 230V, single phase, 50/60Hz, 500W
Dimensions	Antenna mounted controller 10.8" (275mm) x 10.3" (262mm) x 2.7" (69mm) Rack mounted Control panel containing PSU: 19" (483mm) x 1.75" (44mm) x 16" (406mm)
Mounting	Antenna mounted controller Rack mounted Control panel containing PSU: Standard 1U rack mount

Standards

Designed to meet	EN55022 and EN50082-1
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Physical

	ENTERPRISE120™	ENTERPRISE90™
Antenna Width	123cm	90cm
Antenna Height	127cm	99cm
Geometry	Offset, dual optic	Offset, dual optic
Reflector Material	SMC	SMC
Weight	100kg	90kg
Range		
Azimuth	+/-185°	+/-185°
Elevation	10-90°	10-90°
Polarization	+/-95°	+/-95°
Feed Interface	WR75	WR75

Electrical

Receive

Controller	IPOINT™	IPOINT™
Polarization	Linear	Linear
Frequency Band	10.7-12.75 GHz	10.7-12.75 GHz
Gain @12.5GHz	41.8 dBi	38.3 dB;
G/T(30 o elevation)@12.5GHz	21dBK	17.5 dBK

Transmit

Polarization	Linear Orthogonal	Linear Orthogonal
Frequency Band	13.75-14.5 GHz	13.75-14.5 GHz
Gain @14.25GHz	43 dBi	40 dB
VSWR	1.3:1	1.3:1
Isolation RX/TX (13.75-14.5 GHz)	40dB	40dB
Isolation TX/RX (10.75-12.75 GHz)	75dB	75dB

Wind Speed

Operational up to 45 mph (72 kph)
Survival up to 100 mph stowed (161 kph)



Advantech

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