

Dawson GC-Zero LP Ultra Compact Vehicle System

Dawson GC-Zero answers the needs of communications professionals with a low profile antenna system

The very low profile (240 mm) antenna ensures that vehicle heights are not compromised by the fitting of the communications system

'Fit and Forget ' reliability with long, reliable, proven quality in the harshest of conditions



Applications

Emergency Services Communications, Military Communications, Cell Phone Extension
Fire, Police and Rescue services

Functionality

With fully automatic pointing the system is simple to set up and use. A simple user interface requires no special training but gives the operator full control if required.

With built in inclinometer, GPS receiver and DVB receiver built in and fully controlled the operator can concentrate on other important tasks

Design

The system has been designed taking into account Dawson's extensive experience to make the solution light, rugged and fast to deploy but while still retaining the Dawson reputation for quality and value with the system costing a fraction of competitive equipment

Ease of use

The system operates from Dawson custom software that is pre programmed to search for the required satellite using the built in DVB receiver. The operational interface is a simple three button One for deploy, One for stow and an emergency stop. The display also provides a progress meter and a Eb/No meter so that pointing progress can be monitored from the main screen
The software also provides manual control of the antenna if required as well as detailed diagnostics to assist with the unlikely event of fault finding. There are even manual push buttons on the controller to give complete redundancy of control

Compatibility

With the system so light and compact it can be fitted to virtually any base vehicle, especially with the low stow height and light weight, this gives flexibility to coachbuilders pushed for height restrictions

Dawson GC-Zero LP Ultra Compact Vehicle System

- O Light weight and rugged
- O Very Low Profile
- O Fully Automatic



Specification

Section	Item	Specification
Power requirement	Prime power	110 / 220 V AC 50 / 60 Hz
	Power consumption	Approx 100W
Physical	Stow height	240 mm maximum
	Length x width	1150 mm x 800 mm
Weight	System weight	< 25 Kg roof mount
		< 10 Kg indoor equipment
Operation	Pointing time	<5 minutes typical
	Pointing system	Fully automatic on DVB carrier Manual over ride
Environmental	Temperature (use)	Minus 20 to Plus 50 Centigrade
	Wind speed	50 Kph Operational 160 Kph stowed
	Rain	Fully waterproof
Construction	Antenna system	Aluminium and stainless steel
	Reflector	SMC
	Base	Large surface area aluminium
Positioner	Elevation range	10 - 90 Degrees fully motorised
	Azimuth range	180 degrees +/- fully motorised
	Polarisation range	180 degrees +/- fully motorised
Performance	BUC size	1,2,3,4,6 W possible
	Data rate TX	64 Kb - 5 Mb
	Data rate RX	512 Kb - 25 Mb
RF	Antenna Gain	TX 39.0 @ 14.25 GHz
		RX 37.4 @ 11.70 GHz
	Frequency	TX 13.75 - 14.50 GHz
		RX 10.70 - 12.75 GHz
	Approvals	Intelsat and Eutelsat
	Flange	Circular waveguide, optional OMT
Antenna size	80cm nominal	
Feed	2 port linear Ku band	
Options	Power Pack	Vehicle inverter system
	Wireless	Built in wireless access point
	Wireless extender	Battery powered wireless extender pack

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