

SandFly

deployable 75 cm Ka-Band antenna system

The Sandfly is a compact, rugged, medium weight and unobtrusive system providing extremely high-throughput data rates, making it ideally suited to Defence, Government, Commercial and Emergency Response sectors.



KEY FEATURES

- Total weight less than 20kg (44lbs)
- Data rates up to 16Mbps (service dependent)
- Minimal training required
- Simple to setup and align
- 4-piece carbon fibre reflector, for easy stowage
- Setup in under 5 minutes
- Interchangeable modems and transceivers
- Compact operating footprint
- Man-portable pack
- Tool-free assembly

avanti

Approved
Compatibility



Satellite Services, RF
and Secure Communications

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The GRC SandFly 75cm antenna is designed to transmit and receive in Ka-band, providing an extremely light-weight segmented reflector.

Made from carbon fibre and weighing less than 20Kgs the SandFly can be carried by an individual in a handheld transit case and due its four piece design, can be distributed amongst a team for even easier transportation.

As no tools are required for its construction the SandFly can be simply deployed by a single person and positioned on the ground, in a vehicle or as permanently mounted reflector. The SandFly also features interchangeable modems and transceivers, making it ideal for 'go capture' or news spotter applications.

TECHNICAL SPECIFICATIONS

Antenna Size:	75cm
Operating Frequency:	Tx: 29.20 – 31.00 GHz Rx: 19.40 – 21.20 GHz
Gain:	Tx: > 39 dBi Rx: > 35 dBi
Polarisation:	Circular
Cross-polarisation:	Tx: > 25 dB Rx: > 25 dB
VSWR:	Tx: 1.3:1 Rx: 1.3:1
G/T at 30° EI, Midband (db/K)	11.5
Amplifier Size:	3 Watt
Antenna Type:	Offset
Main reflector:	4 piece carbon fibre
Weight:	7Kg (w/o transceiver)
Elevation:	0 – 90° fine adjustment
Azimuth:	+ / - 60° fine adjustment
Wind Load:	20 mph
Operational Temperature:	-30°C to +50°C

The SandFly is fully endorsed by Avanti for use on its fleet of Ka-band satellites and this market leading combination provides a cost effective mobile satellite solution for all users requiring a flexible, mobile Ka-band service.

Avanti is a leading global satellite operator, with vast experience of deploying high speed data communications to consumers, enterprises, governments and carrier services beyond the reach of fibre.



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