

The Holkirk Scarab is a multi-Band and multi-Orbit satellite terminal, the ultimate solution for versatile and dynamic satellite communication needs.



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Seamless Frequency Band Transition

The Scarab terminal features the revolutionary Holkirk Quick Change Cartridge System, which allows users to switch between frequency bands (X-band, Ku-band, and Ka-band) with unprecedented ease. This modular design means cartridges can be swapped out in moments without tools or technical expertise, ensuring your communication systems are adaptable to any mission requirement.

Tracking Non-GEO Satellites

The Scarab terminal is engineered to track non-geostationary (non-GEO) satellite orbits, such as inclined orbit and MEO (Medium Earth Orbit), which are becoming increasingly important for high-throughput and low-latency communications. The terminal's advanced tracking capabilities ensure a stable and reliable connection even with satellites that move rapidly across the sky.

User-Friendly Operation

Designed with the end-user in mind, the Scarab terminal's intuitive interface allows for quick setup and operation. Its portability and ease of use make it an ideal choice for field deployments, emergency response teams, and mobile command centres.

Control

The Scarab can be equipped with the Holkirk AIM MOBILE for seamless operation in Tri-Band operation with auto-sensing frequency band, 30 satellite database, BUC/TWT integrated M&C and graphical user interface.

Integration

The Scarab can form the heart of a secure communication network. With off-air monitoring, RF over fibre links and ruggedised electronics for LEO GEO MEO satellite applications.

Applications

Tri-Band secure communications

Non-GEO orbit tracking

Inclined orbit tracking

- X, Ku and Ka-Band
- GEO / MEO / LEO
- 60 / 80cm / 1.0m reflector
- Lightweight, high power
- Weatherproof complete system
- Up to 55W terminal power
- No-tools assembly
- Single soft-case unit
- Auto-Pointing with GPS
- Fine adjustments on all axis
- Designed to meet MIL-STD 810g

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Technical Information

Antenna size	60cm	80cm	1m
Number of petals	6	5	7
F/D	0.25	0.25	0.25

X Band

TX Frequency	7.9-8.4GHz	7.9-8.4GHz	7.9-8.4GHz
RX Frequency	7.25-7.75GHz	7.25-7.75GHz	7.25-7.75GHz
Gain TX	32.7 dBi	35.0 dBi	37.0 dBi
Gain RX	32.1 dBi	34.6 dBi	36.4 dBi
Pol	2 port Circular		
Axial Ratio	<0.75 dB	<0.75 dB	<0.75 dB
TX/RX Port VSWR	<1.25:1	<1.25:1	<1.25:1
BUC power	50W	50W	50W

KU Band

TX Frequency	13.75-14.5GHz	13.75-14.5GHz	13.75-14.5GHz
RX Frequency	10.7-12.75GHz	10.7-12.75GHz	10.7-12.75GHz
Gain TX	37.2 dBi	39.6 dBi	41.4 dBi
Gain RX	35.7 dBi	38.3 dBi	40.1 dBi
Pol	2 port linear		
Cross pol	30 dB min	30 dB min	30 dB min
TX/RX Port VSWR	<1.5:1	<1.5:1	<1.5:1
BUC Power	60W	60W	60W

Ka Band

TX Frequency	29.0-31.0GHz	29.0-31.0GHz	29.0-31.0GHz
RX Frequency	19.2-21.2GHz	19.2-21.2GHz	9.2-21.2GHz
Gain TX	43.2 dBi	45.7 dBi	47.6 dBi
Gain RX	40.2 dBi	42.6 dBi	44.5 dBi
Pol	2 port Circular		
Axial Ratio	<0.75 dB	<0.75 dB	<0.75 dB
TX/RX Port VSWR	Tx<1.25:1 RX<1.5:1		
BUC Power	20W	20W	20W

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