

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, HEO 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 HEO satellite applications.

Applications

Tri-Band secure communications

Non-GEO orbit tracking

Inclined orbit tracking

TLE Input TRACKING

- X, Ku and Ka-Band
- GEO / MEO / LEO capable
- 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
- GPS over-ride
- Fine adjustments on all axis
- Designed to meet MIL-STD 810g



M&C control includes LNB, BUC and ACU

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Terminal Specifications

Tracking speed

Azimuth	fast	6° per second
	Slow	1° per second
Elevation	fast	6° per second
	Slow	1° per second

Auto-pointing: With GPS and GPS over-ride, TRACKING, TLE Input

Power Input: 90-250 VAC and 24VDC

Power consumption: Moving (with BUC/LNB) 60W
Idle (with BUC/LNB) 23W

Terminal weight (uncased): 28kg (system dependant)

Case Options: Single case, Dual case, Softpack



Technical Information

Antenna size	60cm	80cm	1m
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		
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		
BUC Power	60W	60W	60W
Ka Band			
TX Frequency	27.5-31.0GHz	27.5-31.0GHz	27.5-31.0GHz
RX Frequency	19.2-21.2GHz	19.2-21.2GHz	19.2-21.2GHz
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		
BUC Power	20W	20W	20W