2023-03 v2

Bracer™ sets the standard in secure commercial satellite communication

Keep your communication lines open and information secure. QineticQ's Bracer™ satellite radio communications device and service provides end-to-end encrypted (AES 256 FIPS 140-2 level 3), beyond line of sight (BLOS) voice in one-to-many push-to-talk radio mode, Position Location Information, and SOS emergency alerting.

Designed for discretion and engineered to operate in the planet's harshest environments - it is the most robust, effective and reliable commercial TacSat in the market.

Powered by Iridium satellite technology, the 100% BLOS, push-to-talk device keeps you connected through a highly-resilient network, while end-to-end encryption protects your information and allows you to operate without constraints.

When information security is critical, trust Bracer™.

- Extreme resilience: Delivers guaranteed performance in some of the harshest environments in the world and is rated IP66 and IP67
- Compact carrying: Optimized for size, weight and power to be deployed easily and used discreetly
- Affordability without compromise: Bracer's use of commercial satellite technology guarantees elite functionality at a fraction of the cost of military alternatives



QINETIQ

- **High availability:** 100% BLOS capability keeps global teams connected, when constant communication is critical
- Superior security: End-to-end encryption powered by QinetiQ, ensuring team communications remain secure and information stays safe
- **Instant C2**: User configurable global coverage in seconds, so that when time is of the essence, securing communication lines is simple
- Third party integration: Universally inter-operable with a range of covert, discreet and overt audio ancillaries; letting you choose the best radio to meet mission-specific tasks

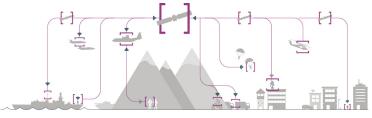
Connected. Everywhere.





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Dimensions L 170 mm x W 76 mm x H 33 mm (excluding antenna) L 6.9" x W 3" x H 1.3" (excluding anten	nna)	
Weight 400 g 14.1 oz		
Material UL rated PC-ABS with TPE rubber over-mould		
ENVIRONMENTAL		
Operating: -10 °C to 55 °C Operating: 14 °F to 131 °F		
Temperature Battery Charging: 0 °C to 55 °C Battery Charging: 32 °F to 131 °F		
Storage: -40 °C to 60 °C Storage: -40 °F to 140 °F		
Ingress protection IP66 / IP67 to 1-m immersion (IEC/EN 60529)		
Vibration Tested to MIL-STD-810G / Def Stan 00-035 for wheeled/tracked operation & helicopter transport	ation	
Shock Tested to MIL-STD-810G / Def Stan 00-035 to 40 g / 11 ms		
Air transportation MIL-STD-810G / Def Stan 00-035 for pressurized/unpressurized transportation	MIL-STD-810G / Def Stan 00-035 for pressurized/unpressurized transportation	
Mechanical Vibration & Shock Extra storage for large file transfers		
INTERFACES		
Power input SIM card PLI / C2 input/output		
Audio input/output Internal antennas Internal antennas		
GENERAL		
Voice: One-to-many, BLOS, Iridium™ push-to-talk Secure Position Location Information emergency alerting (SOS)	(PLI) and	
Simultaneous voice and PLI Multiple PTT talkgroups		
Frequency range Iridium 1616–1626.5 MHz L-band		
Waveform TDD, TDMA/FDMA		
Transmit Power 7 Watt (peak)		
Audio latency 500ms		
SECURITY		
Insecure mode Iridium™ AES 256 SatCom bearer link encryption		
Secure mode Additional layer of customer-keyed AES 256 end-to-end content encryption for push-to-talk and F	Additional layer of customer-keyed AES 256 end-to-end content encryption for push-to-talk and PLI	
Certification FIPS 140-2 level 3 (pending)		
Selection of insecure (link encrypted) or secure (link and end-to-end encrypted) talkgroups		
Handset key management User authentication		







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