



Defence Communications Systems

SENTINEL MOBILE BROADBAND BASESTATION SELF-CONTAINED BROADBAND DATA COMMUNICATIONS

The Sentinel Mobile Broadband Basestation (MBB) system exploits contemporary UMTS/3G mobile telephony to provide military and paramilitary users with self-contained, easily deployed data communications both within an area of operations and to/from an adjacent IP infrastructure.



CAPABILITY

The capability has been designed to provide the operational flexibility to suit the requirements of defence, commercial and governmental users. Potential uses when used in conjunction with suitable “Apps” on a Smart Phone include two-way transfer of:

- Imagery - stills or video (IR, B/W or full colour)
- Geo-referenced voice files processed into a text document (recorder)
- Location - maps and navigation aids
- Linguistics - translator (written and spoken)
- Manuals - TAMs, SOPs, First Aid, etc
- Terrain - path profiles, arcs of visibility, etc.
- Weather - forecasts, moon phases and tides
- Reports - standard message formats

Sentinel Mobile Broadband Basestation supports generic base architectures.

COTS Technologies

- Inexpensive initial provision, maintenance and update costs
- Low set-up costs, low user resource requirements
- Minimal training requirements
- Readily expandable system

INTERFACES

Antenna interface	Mounting direct or remote
Network Interface	10Mbps/100Mbps auto-sensing copper ethernet port
Power interface	48v DC power supply
Earth interface	External earth stud
Mounting	Stand-alone or fixings provided for a range of mast, vehicle and static installation mountings

FEATURES

- Small, rugged, packaged and stackable
- Static, vehicle or mast mounting
- Sealed to IP67 for climatic and induced environmental robustness
- Low noise
- Physical protection against connector damage

Climate/Environment

Temperature:	
Storage	-40 °C to +70 °C
Operating	-40 °C to +58 °C
Humidity	0-95% RH non-condensing
Driving rain	200mm/hr
Dust/sand	1.1g/m ³ for 3 hrs
Snow	0.53kg/m ² /s at 13m/s for 30 mins

Induced Environment

Environmental	Mil Std 810 G
EMC	Mil Std 461 F

Physical

Weight	4kg
Size	25cm x 21cm x 8cm
Power consumption	30W max



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