

### Description:

The UHF727VM-DB-HG is a dual-band tactical LTE antenna for military or highly demanding environments. Designed to deliver outstanding performance across a wide range of LTE bands, this antenna fully supports battlespace digitisation.

The dipole array design ensures maximum gain, expanding network coverage in the field. The antenna is suitable for use with base stations (eNodeB) as well as with mobile terminal devices where it can be used to connect to public infrastructure or to dedicated networks.

The antenna is designed for use on all modern in-service military platforms, including armoured or soft skin, metal chassis or composite, wheeled or tracked. A full range of mounting options are also available for static mounting on shelters or deployable masts.

### Electrical specifications:

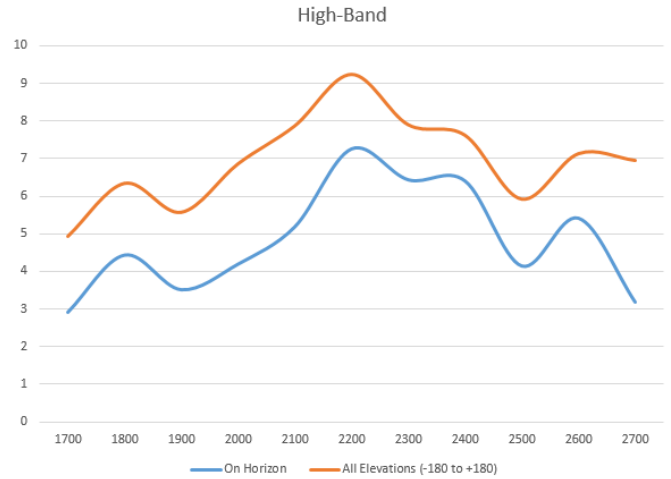
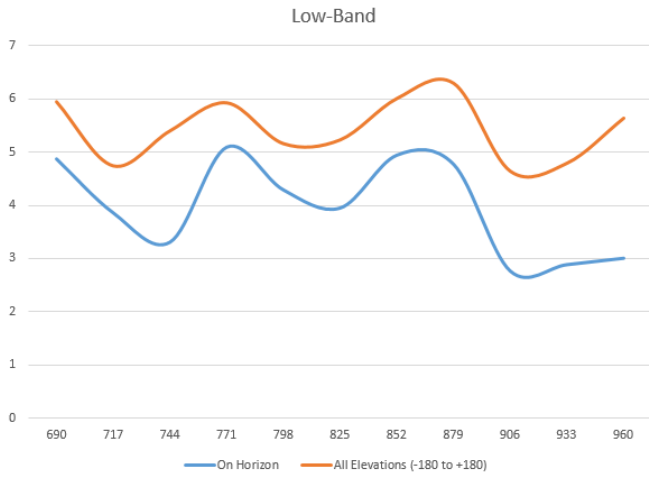
Frequency range	690-960 MHz 1690-2690 MHz
VSWR <sup>#</sup>	≤ 3:1
Nominal impedance	50 ohm
Power rating	50W Peak, 20W CW
Gain	See plots
Radiation pattern	Azimuth: Omnidirectional Elevation: See plots
Polarisation	Vertical
Connector	N female, others on request

### Mechanical specifications:

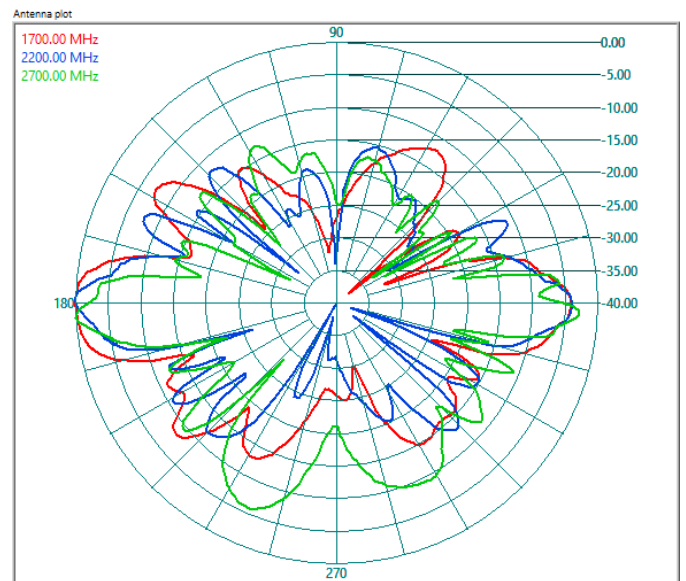
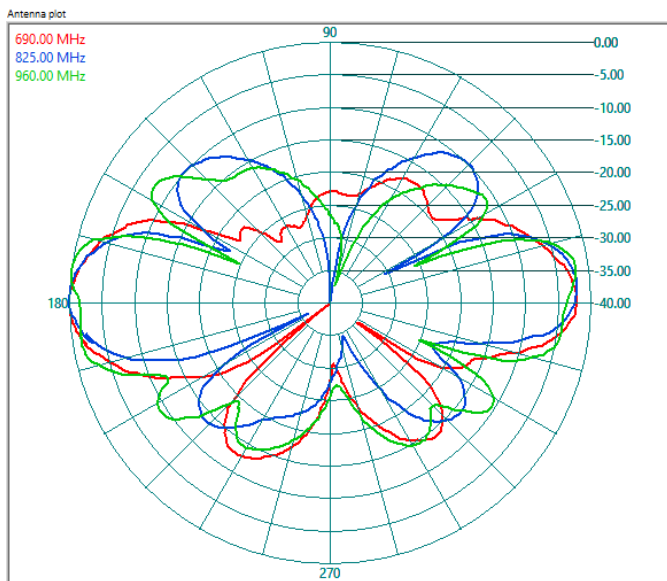
Design	Dual broadband dipole arrays. Radiating element completely enclosed in epoxy/fibreglass laminate. Metal parts are brass and stainless steel.
Length <sup>#</sup>	Total: 1.5 m (59 in) Whip: 1.28 m (50.5 in) Base: 0.24 m (9 in)
Weight <sup>#</sup>	Total: 3.7 kg (8.1 lbs) Whip: 1.2 kg (2.6 lbs) Base: 2.5 kg (5.5 lbs)
Wind rating	55 m/s = 125 mph
Finish	Polyurethane lacquer, olive drab, other colours on request.
Temperature range	-55 °C, +71 °C; -67 °F, +160 °F
Installation	Standard 4 hole NATO base with spring

<sup>#</sup> Standard 4-hole vehicle mounted version

## Gain



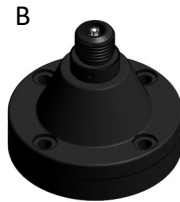
## Elevation Patterns



## Base Options



NATO 4-hole  
4 x M10 or 3/8" Bolts  
on 114mm (4.5in) PCD  
Base diameter 140mm (5.5in)



NATO 4-hole  
Rigid (no spring)  
4 x M10 or 3/8" Bolts  
on 114mm (4.5in) PCD  
Base diameter 140mm (5.5in)



NATO  
50mm Thread  
Base diameter 95mm (3.74in)



Mast Mount Bracket  
Rigid (no spring)  
24mm (0.95in) Spigot  
50mm (1.97in) Spigot  
Customer Specified



Tube Clamp Adaptor  
Clamp area diameter 38mm  
Clamp area length 80mm  
N-type female bottom connector