

# High Gain GSM/3G/LTE Manpack Antenna

## HD827Q

The HD827Q is a high gain manpack antenna covering the GSM, 3G and 4G LTE bands. The antenna is particularly suited for portable communication and jamming applications. Its centre fed design minimises interference of the human body on the radiation performance of the antenna.



- Compact and unique electrical design
- Optimised performance for GSM, 3G and 4G LTE frequency bands
- Rugged antenna construction with shock absorption spring (also available as lightweight version with rubber spring)

Product details*	
Frequency range	790 - 2700 MHz
Matching	Passive
Polarization	Nominally vertical
Antenna type	Wideband dipole array
Radiation pattern	Omnidirectional
Gain (typical)	+2 to +5 dBi (Measured patterns on request)
VSWR	≤ 3.0
Nominal Impedance	50 Ω
Power rating (RMS)**	790 - 1000 MHz : 85 W (P <sub>max1</sub> ) 1000 - 1700 MHz: 65 W (P <sub>max2</sub> ) 1700 - 2200 MHz: 60 W (P <sub>max3</sub> ) 2200 - 2700 MHz: 55 W (P <sub>max4</sub> )
Standard color	Black
Radiator	Radome protected (diameter 30 mm)
Height	535 mm
Weight	410 g

Installation*	
RF connection	Male N-type connector
Mounting	Directly to a matching connector

\*Specific adjustments on request

\*\* Sum of input powers (P) should not exceed the limit of  $1 \geq P_1/P_{max1} + P_2/P_{max2} + \dots$

Order number	NSN	Product
HD827Q	5985-58-000-8339	Antenna as described above
HD827RQ	5985-58-000-9607	Antenna with rubber spring (Height: 545 mm / Weight: 310 g)
HD827	-	Antenna without a spring (Height: 475 mm / Weight: 290 g)
HD827Q-F8		Antenna as described above, color desert tan FS33446