

Hubit LTE/4G Manhole Cover Antenna



Overview

This compact, rugged antenna is designed for discreet installation in harsh outdoor or industrial environments, including mounting beneath manhole covers or on metal surfaces. Its sealed IP68 housing protects the internal LTE/2G/3G PCB element against water, dust, vibration, and temperature extremes, ensuring reliable cellular connectivity for monitoring, telemetry, and smart-infrastructure applications.

With multiple frequency band support and flexible cable/connector configurations, it provides a robust, low-maintenance solution for long-term deployments.

Key Features



IP68 Waterproof

Fully protected against water and dust ingress, enabling reliable operation in underground and outdoor environments.



Rugged Design

UV-stable, impact-resistant materials and a wide operating temperature range of -40°C to $+85^{\circ}\text{C}$ ensure long-term durability.



Multi-band Cellular

Supports LTE/4G, 3G, and 2G frequencies, delivering consistent connectivity across global networks.



Flexible Mounting

Secure stainless-steel threaded bolt with optional adhesive pad allows fast installation on metal or non-metal surfaces.



Low-Maintenance Durability

Robust construction built for long-term, low-maintenance deployment.



Custom Cable & Connector

Cable length and connector type built to your specification.

Network Connection

Frequency	LTE 700/GSM 900: 698–960MHz / GSM 1800: 1710–1880MHz / UMTS: 1920–2170MHz / WLAN/LTE: 2300–2700MHz
Antenna	LTE 700/GSM 900: 698–960MHz; OdBi / GSM 1800: 1710–1880MHz; 2.14dBi / UMTS: 1920–2170MHz; 2.14dBi / WLAN/LTE: 2300–2700MHz; 2.14dBi
Impedance	50 Ohm
Polarisation	Vertical
Max Power @ 30°C	LTE 700/GSM 900: 35W @698–960MHz / GSM 1800: 35W @1710–1880MHz / UMTS: 35W @1920–2170MHz / WLAN/LTE: 35W @2300–2700MHz
Radiation Pattern	Omni-directional
Return Loss (VSWR)	<2.2:1 (all bands)
Radiator Type	Folded Monopole

Certification

RoHS 2002/95/EC (EU compliant)

Mechanical

Dimensions	30.6 dia x 5.8mm; 40mm Bolt Length; 2.5m Cable Length
Weight	42g
IP Level	IP68 (IEC 60529)
Housing	M12 Stainless Steel Bolt and Split Nut; 3M Adhesive Mounting Pad
Connector	According to Customer Specification
Cable Length	1500 – 5000mm
Cable Type	RG316 Black

Ordering Information

Part Number	Plastic Threaded Steel Threaded	HTL-NET-ANT-MHX25MP_01 HTL-NET-ANT-MHX25MS_01
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Unit Structure

