

RansNet YB0020KM

4G / 5G Cellular Coverage Extension

Omnidirectional Outdoor Antenna
For Maritime and Land Applications

Coverage up to 15-20 km*



The RansNet YB0020KM is an outdoor cellular antenna for 4G/5G routers, designed to extend connectivity on vessels and at land-based sites. Its omnidirectional radiation pattern supports coverage around the antenna without directional aiming.

Key Features

- 4G LTE and 5G support within specified frequency bands
- 360° horizontal coverage with vertical polarization
- Maximum antenna gain of 4.78 dBi
- IP66-rated outdoor enclosure
- Pole-mount installation
- Includes a 2 m connecting cable with SMA connector

Applications

- Vessel-to-shore cellular connectivity
- Coastal operations, ports and marine facilities
- Rural sites and land-based coverage extension
- Outdoor 4G/5G router installations

Router Configuration & Optional Cables

4G router (2×2 MIMO): 2 antennas per router
5G router (4×4 MIMO): 4 antennas per router

Electrical Specifications

Frequency range (MHz)	806-960 / 1710-2690 / 3300-3700
Maximum gain	4.78 dBi
VSWR	≤ 2
Impedance	50 Ω
Polarization	Vertical
Radiation pattern	Omnidirectional
Maximum input power	50 W

Mechanical Specifications

Connector type	SMA Male (center pin)
Included cable	2 m, SMA connector
Antenna dimensions	Ø60 × 750 mm
Antenna weight	1.2 ± 0.15 kg
Radome material / color	PVC / White
Mounting method	Pole mount

Environmental Specifications

Ingress protection	IP66
Operating temperature	-40°C to +65°C
Storage temperature	-40°C to +65°C

Optional extension cables
LMR-400 cable with SMA connectors.
Lengths up to 20 m, sold separately.

* Range depends on network coverage, frequency band, antenna height, line of sight and installation conditions. Longer cables introduce signal loss and may reduce achievable range and throughput. Router and network bands must fall within the specified antenna frequency ranges.