

450MHz Band Antennas for Smart Grid

In a smart grid, modern communication technology connects the various parts of the energy ecosystem, such as power generation and power consumption, and coordinates these with each other. In this way, renewable energy can be better integrated into the power grid and the grid can be optimally utilized. 450MHz systems provide a robust solution to range and inbuilding penetration for the smart grid.



450MHz Elevated Antenna

The BSU is a 2dBi gain omnidirectional antenna suitable for temporary or permanent installation on a mast. The antenna has an N socket terminal which allows use of different types and lengths of coaxial cable, making it ideal for mounting in an elevated location as a range-extending or area coverage solution.

Elevated omnidirectional antenna

Mast mount

Temporary or permanent

Quick assembly

Part no.	Frequency (MHz)	Termination
BSU-S4	450-470	N Socket



450MHz Offset Dipole

The ODP is a half-wave dipole antenna mounted on an offset mounting arm for wall or mast installation. The offset provided by this arm increases performance by separating the antenna from the mounting surface. The antenna can be wall mounted via screw fixings or pole mounted to masts of between 32 and 50mm (1.25"/2") with cable ties or similar.

Ideal for fixed radio terminals

Easy installation

Suitable for internal & external use

Part no.	Frequency (MHz)	Cable length & Termination
ODP-453-2SP	450-470	2m (6.6') SMA Male
ODP-453-8SP	450-470	8m (26.2') SMA Male



UHF Bracket Mount Antenna

The bracket mount BM453-[X] antenna consists of a robust end-fed half-wave antenna with a flexible whip mounted on a durable, UV-stable ABS bracket. The antenna can be wall mounted via screw fixings or pole mounted with a supplied worm drive clip. It is supplied with 2m (6.6') or 5m (16.4') of low-loss cable.

Halfwave element

Improves range

Wall mount or mast mount options

Part no.	Frequency (MHz)	Cable length & Termination
BM453-2SP	450-470	2m (6.6') SMA Male
BM453-5SP	450-470	5m (16.4') SMA Male



450MHz + 4G/5G Bracket Antenna

The B4BE-460-6-60-[X] is a cost-effective omnidirectional antenna for 4G/5G devices operating across 410–520 MHz as well as 600–6000 MHz. Suitable for both external and internal installation, the mounting bracket supports wall/panel mounting with the supplied screws and wall plugs or mast mounting with a pipe clip or cable ties (not supplied).

Covers 410-520 / 617-960/1427-6000MHz

Wall, mast, cabinet/enclosure or vehicle installation

Integrated 5m (16.4') double shielded coaxial cable

Part no.	Frequency (MHz)	Cable length & Termination
B4BE-460-6-60-5SP	410-520/617-960 /1427-6000	5m (16.4') SMA (m)



450MHz + 4G/5G Low Profile Antenna

The LPA[L]-460-7-42 series is a range of efficient, low-profile, omnidirectional, multi-band antennas suitable for external and internal installation. It covers 450–466/698–960/1710–4200 MHz and supports panel, wall, or mast mounting.

Covers 450–466/698-960/1710-4200MHz

Wall, panel, or mast mount

Ensures reliable connectivity for IoT devices

5mm (0.2") or 2.8mm (0.1") cable options

Part no.	Frequency (MHz)	Cable length & Termination
LPAL-460-7-42-5SP	450-466/698-960 /1710-4200	5m (16.4') SMA (m)
LPA-460-7-42-2SP	450-466/698-960 /1710-4200	2m (6.6') SMA (m)

