Dipole Pentaband Waterproof Antenna

SKU	Manufacture	Supp_Part_No
2830995	ARDUINO	X000016

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Overview

A single solution to connect your smart devices to the Cloud. The antenna supports the GSM 850 / 900 / 1800 / 1900 MHz and UMTS bands. Designed for small devices, this antenna will work when used as wireless terminal, gateway, or access point. It is a ground plane independent design, housed in a robust waterproof plastic cover. It can be used outdoors in any kind of telemetry project, as well as for discreet in-vehicle installations. It comes with a high grade adhesive tape that allows the antenna to be attached to any surface. Please note, the antenna is not meant to be mounted on large metallic surfaces, since it would affect the antenna's coverage. It works great on other materials such as glass, plastic, wood, or cardboard.

List of Compatible Boards

This penta-band antenna is supported by the following official Arduino boards:

- Arduino MKR FOX 1200
- Arduino MKR WAN 1300
- Arduino MKR WAN 1310
- Arduino MKR GSM 1400

You can connect the antenna to any other boards with a micro UFL connector.

Tech specs

The antenna has been characterized for 5 different bands as shown in the following tables:

BAND	Gain	VSWR	Impedance	Polarization
GSM 850 (824-894 MHZ)	<0 dBi	<2	50 OHM	linear
GSM 900 (890-960 MHZ)	<1 dBi	<2	50 OHM	linear
GSM 1800 (1710-1880 MHZ)	<1 dBi	<2	50 OHM	linear
GSM 1900 (1850-1990 MHZ)	<0 dBi	<2,2	50 OHM	linear
UMTS (1900-2200 MHZ)	<0 dBi	<2,5	50 OHM	linear

Other characteristics:

- Dimensions: 130x16x5 mm
- Cable length: 120 mm / 4.75 inch
- Weight: 1 gram
- Connector: micro UFL
- Housing: plastic
- Support: double-sided tape