

# ADPT-24

ANTENNAS | ADPT-24 SERIES

## UNIVERSAL MODEM TO ANTENNA ADAPTOR

698 - 2700 MHz



- Wideband LTE and Wi-Fi antenna
- Compatible with 4G, 3G and 2G technologies
- Improves mobile network subscriber's user experience
- Increased connectivity stability
- Weather- and vandal resistant
- Used in extreme weather environments



APPLICATION AREAS

### Product Overview

The adaptor consists of a flat plastic pad with a 50 cm cable that terminates in a SMA (female) connector. The plastic sleeve, that looks like a cell phone battery, encloses a device that can couple to a cell phone and divert it to a booster antenna thereby ensuring better reception. The pad of the coupler is placed against the top of the phone. (The coupler is supplied with a small piece of Velcro that you can use to ensure a more secure connection to your phone). You then connect the other end of the coupler to one of our booster antennas via the SMA (female) connector. The booster antenna can be mounted on the outside of a building and pointed in the direction of your closest cellular base station to ensure good reception.

### Features

- Wideband frequency ranges from 698 – 2700 MHz
- Slim and lightweight
- Robust design

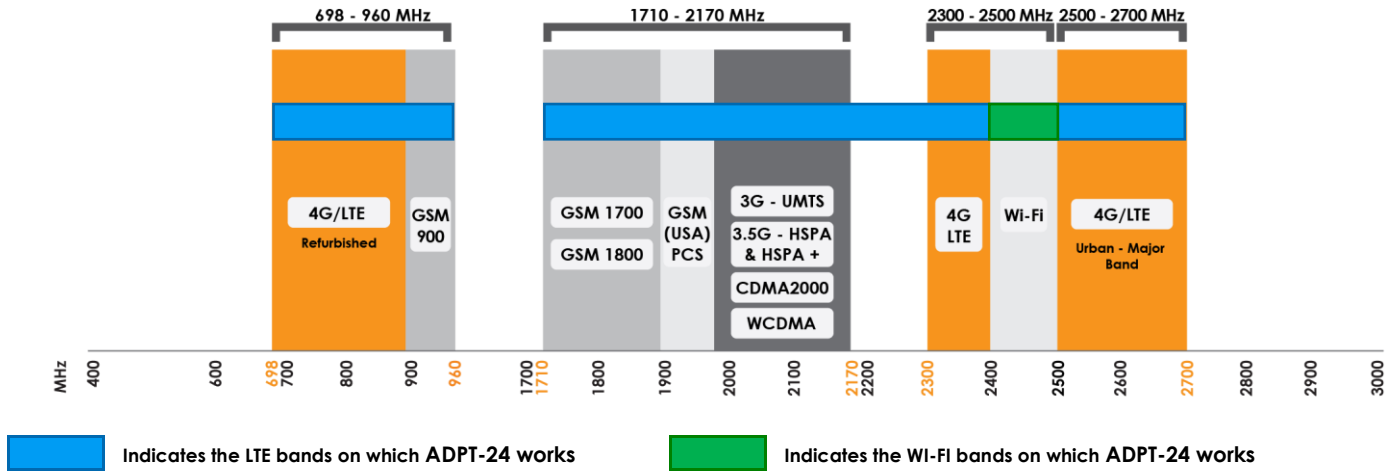
### Application Areas

- Weak signal areas where there is little or no cell phone connection.
- Connection 3G/HSDPA data card and GSM/UMTS/3G mobile phones to a high antenna as to improved range and communication.
- Ideal for farmers, lodges, holiday resorts or anyone that depends on communication in the rural areas.



## Frequency Bands

The ADPT-24 works from 698 – 960 MHz | 1710 – 2700 MHz



## Antenna Overview

|                   |  |
|-------------------|--|
|                   |  |
| Ports             | 1  |
| SISO / MIMO       | SISO   |
| Frequency Bands   | 698 – 960 MHz<br>1710 – 2700 MHz   |
| Polarisation      | Linear   |
| Coax Cable Type   | RG 174   |
| Coax Cable Length | 0.5m   |
| Connector Type    | SMA (F)  |

\*The coax cable & connector are factory mounted to the antenna

## Electrical Specifications

|                      |   |
|----------------------|---|
| Frequency bands:     | 698 – 960 MHz<br>1710 – 2700 MHz  |
| VSWR (Coupled):      | <3:1  |
| VSWR (Free Space):   | <3:1  |
| Feed power handling: | 10 W  |
| Input impedance:     | 50 Ohm (nominal)  |
| Polarisation:        | Linear  |
| Coax cable loss:     | 0.78 dB/m @ 600 MHz<br>0.92 dB/m @ 900 MHz<br>1.35 dB/m @ 1800 MHz<br>1.6 dB/m @ 2400 MHz |
| DC short:            | No  |

## Product Box Contents

|                   |               |
|-------------------|---------------|
| Antenna:          | A-ADPT-024-V2 |
| Mounting bracket: | N/A           |

## Ordering Information

|                     |               |
|---------------------|---------------|
| Commercial name:    | ADPT-24       |
| Order product code: | A-ADPT-024-V2 |
| EAN number:         | 6009693810150 |

## Mechanical Specifications

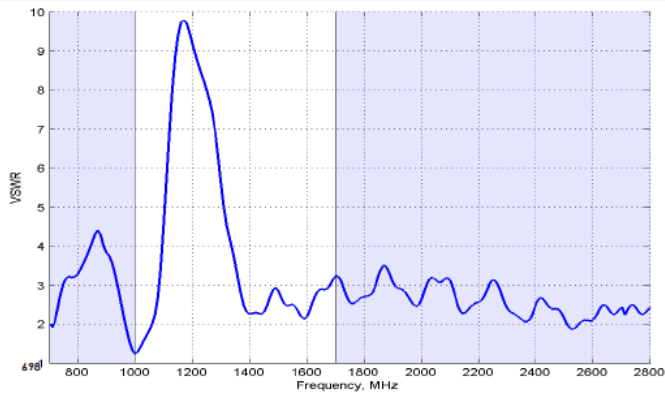
|                      |                            |
|----------------------|----------------------------|
| Product dimensions   | 80 mm x 45 mm x 15 mm      |
| Packaged dimensions: | 120 mm x 50 mm x 23 mm     |
| Weight:              | 0.029kg                    |
| Packaged weight:     | 0.038kg                    |
| Radome material:     | ABS (Halogen Free)         |
| Radome colour:       | Pantone Black<br>RAL Black |
| Mounting Type:       | Velcro                     |

## Environmental Specifications, Certification & Approvals

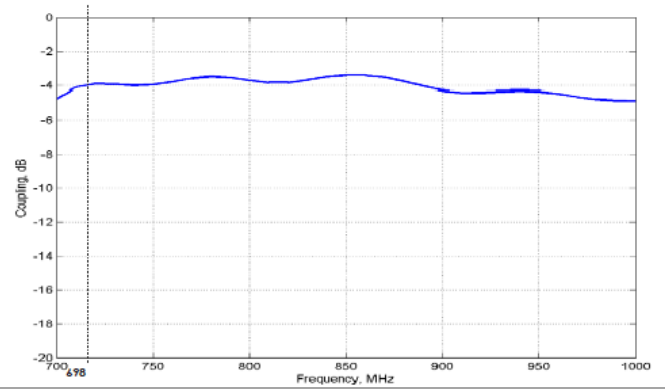
|                                 |                                     |
|---------------------------------|-------------------------------------|
| Wind Survival:                  | N/A                                 |
| Temperature Range (Operating):  | -20°C to +50°C                      |
| Environmental Conditions:       | Indoor                              |
| Salt Spray:                     | MIL-STD 810F/ASTM B117              |
| Operating Relative Humidity:    | Up to 98%                           |
| Storage Humidity:               | 5% to 95% - non-condensing          |
| Storage Temperature:            | -20°C to +50°C                      |
| Enclosure Flammability Rating:  | UL 94-HB                            |
| Impact resistance:              | IK 08                               |
| Product Safety & Environmental: | Complies with CE and RoHS standards |

## Adapter Performance Plots

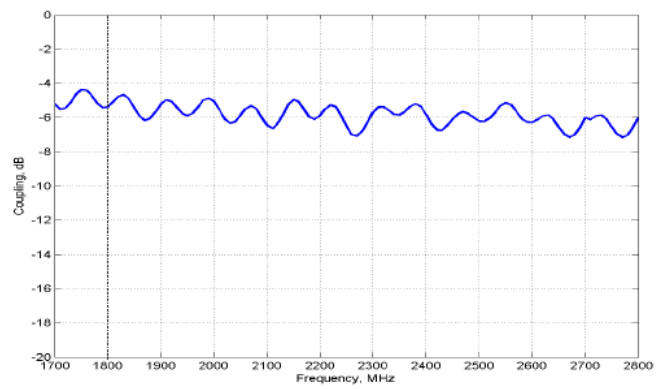
VSWR



Coupling @ 900MHz



Coupling @ 1800MHz



### Voltage Standing Wave Ratio (VSWR)

VSWR is a measure of how efficiently radio-frequency power is transmitted from a power source, through a transmission line, into a load. In an ideal system, 100% of the energy is transmitted which corresponds to a VSWR of 1:1.

The ADPT-24 delivers superior performance across all bands with a VSWR of 3:1 or better across 80% of the bands.

## Additional Accessories

Extension cables: N/A

Various connectors available

See accessories technical specifications on [www.poynting.tech](http://www.poynting.tech)

## Contact Poynting

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