

ANTENNAS | ADPT-24 SERIES

UNIVERSAL MODEM TO ANTENNA ADAPTOR

698 – 2700 MHz



698 – 960 MHz
1710 – 2700 MHz

VSWR

< 3:1



Increase
X Mb/s

4G
LTE

4G LTE



2.4 - 2.5 GHz



-20°C to +50°C



Fire Resistant

- 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



Urban



Rural/Farm

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

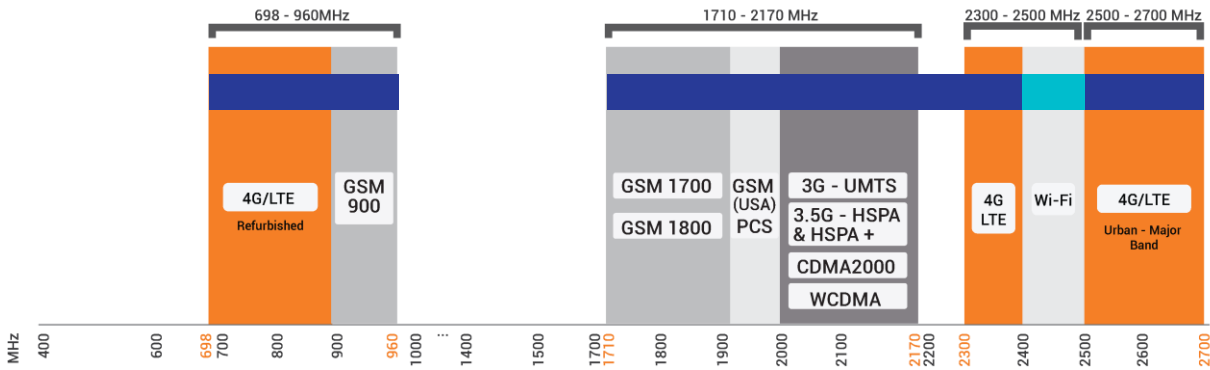
Application Areas

- 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 | and | 1710 – 2700 MHz |



Indicates the 4G/LTE bands on which ADPT-24 works Indicates the WI-FI bands on which ADPT-24 works

Antenna Overview

	
Ports	1
SISO / MIMO	SISO
Frequency Bands	698 – 960 MHz 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 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:	0.886 dB/m @ 900 MHz 1.31 dB/m @ 1800 MHz 1.537 dB/m @ 2400 MHz
DC Short:	No

Product Box Contents

Antenna:	A-ADPT-0024-V2
Mounting Bracket:	N/A

Ordering Information

Commercial Name:	ADPT-24
Order Product Code:	A-ADPT-0024-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 RAL Black
Mounting Type:	Velcro

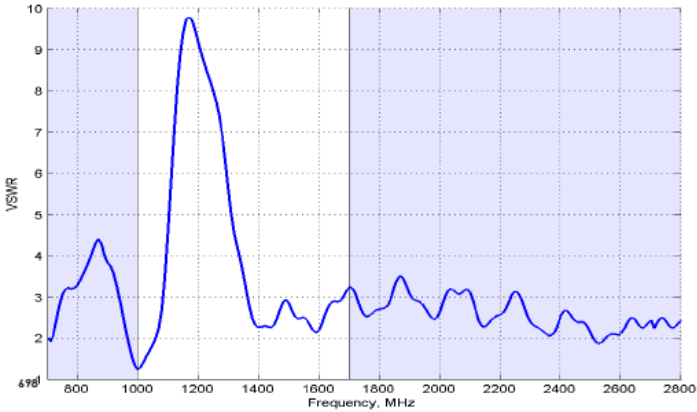
Environmental Specifications, Certification & Approvals

Wind Survival:	N/A
Temperature Range (Operating):	-20°C to +50°C
Environmental Conditions:	Indoor
Salt Spray:	MIL-STD 810G/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

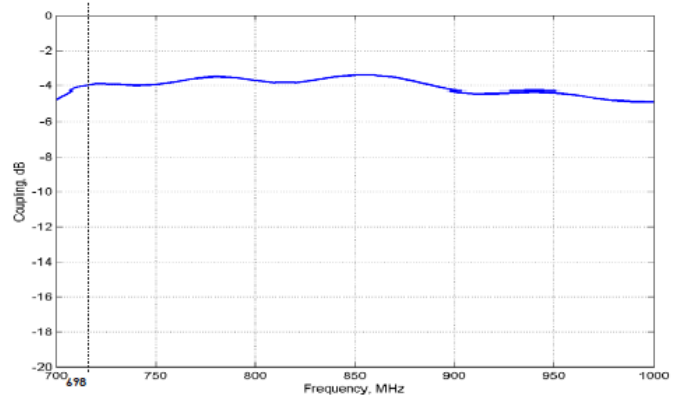


Antenna Performance Plots

VSWR



Coupling @ 900 MHz

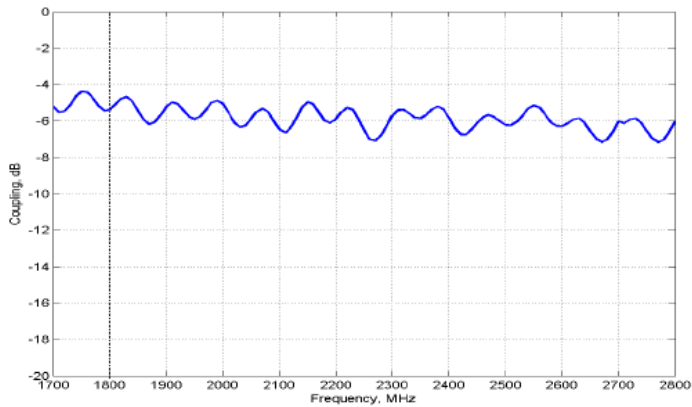


Voltage Standing Wave Ratio (VSWR)*

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.

Coupling @ 1800 MHz



Additional Accessories

Extension cables: N/A

Various connectors available

See accessories technical specifications on www.poynting.tech

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