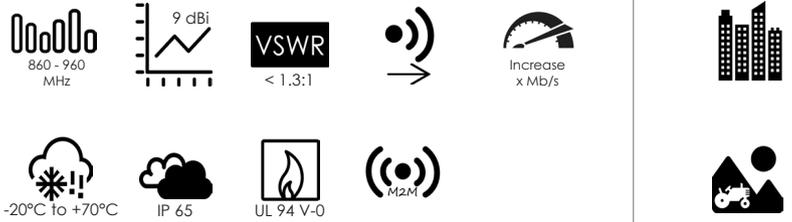


ANTENNAS | PATCH-25-V2

PATCH-25-V2

860 - 960 MHz RFID PATCH ANTENNA



- Wideband antenna
- Circularly polarised
- Robust
- Vandal and water resistant
- Meets the stringent electrical requirements for RFID applications

Product Overview

This antenna covers both EU and USA RFID bands. The antenna has been designed to be water resistant and is easy to install. It is circularly polarised for reading in any orientation. Due to its circular polarisation it can also be used to improve indoor GSM coverage. VSWR is typically less than 1.3:1, giving a return loss better than 20dB. This antenna is unique in the RFID environment because of its VSWR & gain specifications.

Features

- Medium gain directional antenna
- Circularly polarised
- Wideband - covers wide frequency band
- Operation is independent of the ground plane
- Easy to install
- Low VSWR

Application areas

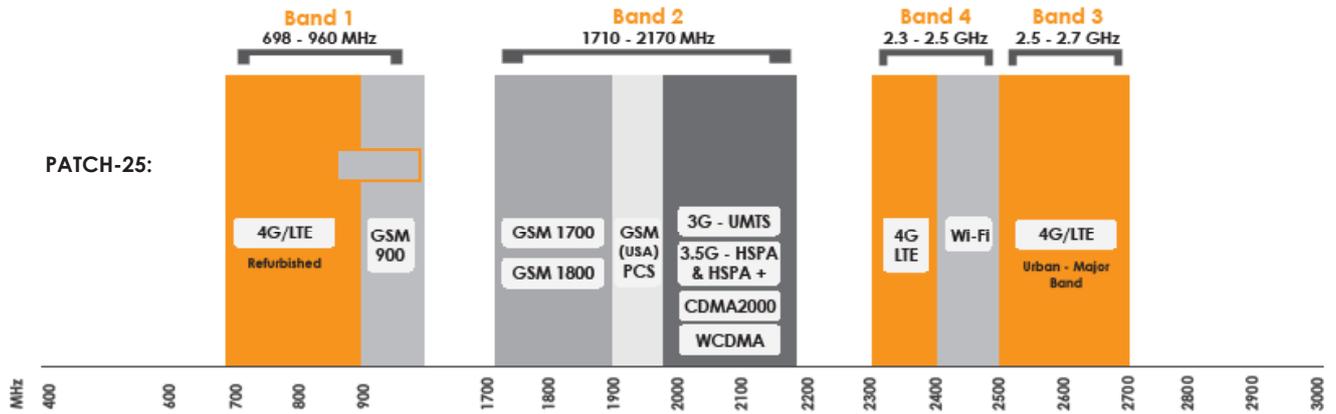
- Areas of poor GSM-800 and GSM-900 coverage
- Indoor GSM applications
- Rural and urban environments
- Operator agnostic
- RFID reader applications



Frequency bands

The PATCH-25 is an RFID antenna that works from 860 - 960 MHz

 Indicates the bands on which this antenna works



Antenna Performance Plots

VSWR:

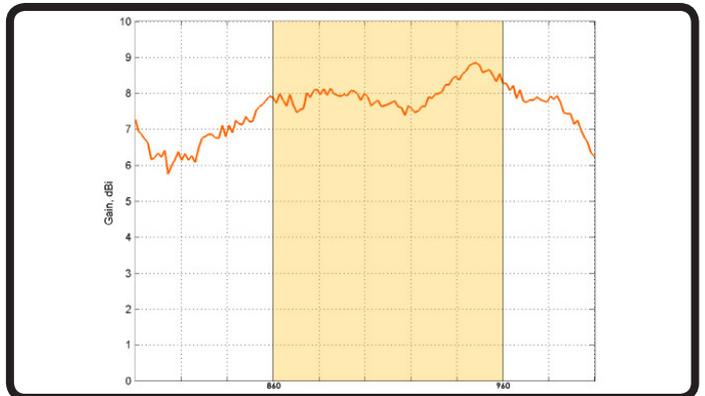


Voltage Standing Wave Ratio (VSWR)

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 PATCH-25 delivers superior performance across all bands with a VSWR of 1.3:1 or better.

Gain: (excluding cable loss)



Gain* in dBi

8.75 dBi is the peak gain across all bands from 860 - 960 MHz

Gain @ 860 - 935 MHz:

8 dBi

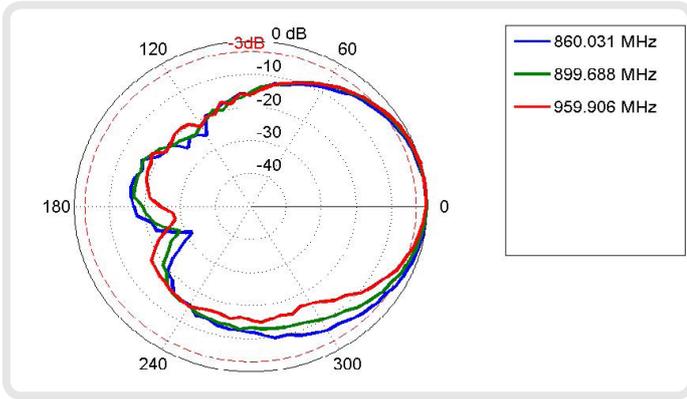
Gain @ 935 - 960 MHz:

8.75 dBi

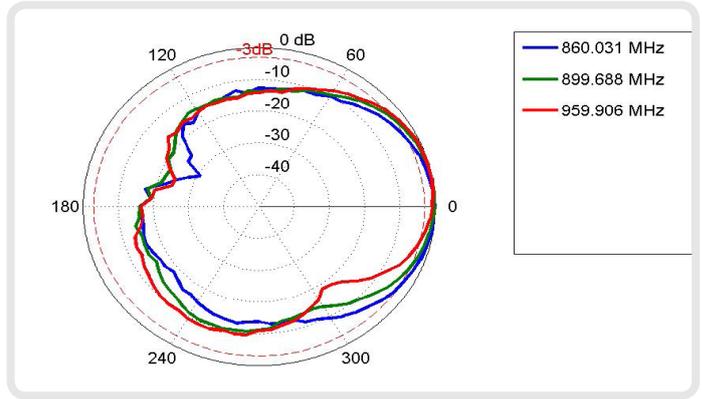
*Antenna gain measured with polarisation aligned standard antenna

Radiation Patterns

Horizontal: 800 - 1000 MHz



Vertical: 800 - 1000 MHz



Electrical Specifications

Frequency Bands:	860 - 960 MHz
Gain (Max):	8.75 dBi
VSWR @ 860 - 935 MHz:	< 1.3:1
VSWR @ 935 - 960 MHz:	< 1.7:1
Feed Power Handling:	10 W
Input impedance:	50 Ohm (nominal)
Polarisation:	Circular (Right Hand Circular Polarised)
Cable loss:	0.85dB/m @ 900 MHz
DC Short:	Yes

Mechanical Specifications

Product Dimensions (L x W x D):	250 x 250 x 40mm
Packaged Dimensions:	335 x 250 x 95mm
Weight:	0.57 kg
Packaged Weight:	0.83 kg
Radome Material:	ABS (Halogen Free)
Radome Colour:	Pantone - Cool Gray (1C) RAL - 7047

Environmental Specifications

Wind Survival:	<160km/h
Temperature Range (Operating):	-20°C to +70°C
Environmental Conditions:	Outdoor/Indoor
Operating Relative Humidity:	Up to 98%
Storage Humidity:	5% to 95% - non condensing
Storage Temperature:	-20°C to +70°C

Product Box Contents

Antenna:	A-PATCH-0025-V2
Mounting Bracket:	-----
Cable Length:	0.3m
Cable Type:	HDF 195
Connector:	N-Type (female)

The connector is factory mounted to the antenna



A-PATCH-0025-V2



Ordering Information

Commercial name:	PATCH-25
Order Product Code:	A-PATCH-0025-V2
EAN number:	6009693810259

Additional Accessories Available

Extension Cables:	Up to 15m HDF 195
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Various connectors available

Installation poles and brackets available

For more detailed information and availability in your region, visit our web site: www.poynting.tech

Certification Approvals and Standards

Flammability rating:	UL 94-V1 EN 13823
Water Ingress Protection Ratio/Standard:	IP 65 (NEMA 4X)
Impact resistance:	IK 08
Salt Spray:	MIL-STD 810F /ASTM B117
Product Safety:	Complies with UL, CE, EN, CSA and IEC standards

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PATCH-25

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