



## ShortLink Wideband Antenna Family

*Model: SLA100-UFL*

*700MHz to 3000MHz frequency range.*

*Excellent efficiency over the whole frequency range.*

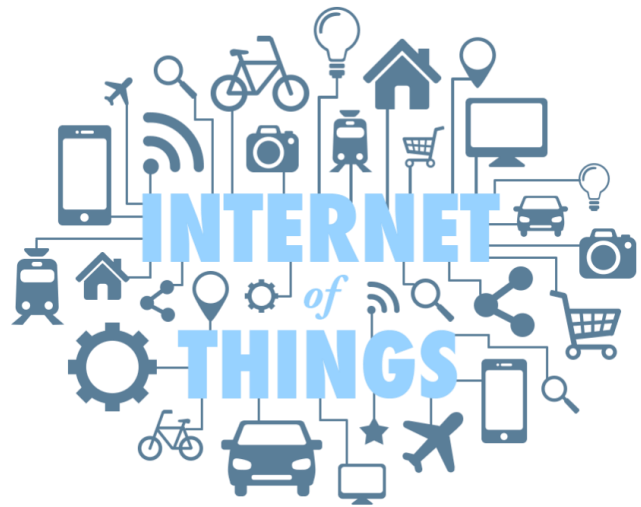
*Very suitable for IoT-applications and supports Bluetooth, Wi-Fi, 2G, 3G, 4G/LTE, LPWAN, ZigBee as well as GPS and more.*

## Overview

### Full IoT Frequency Range

The SLA100 antenna from ShortLink is an excellent omnidirectional true wideband antenna, specially designed for the entire range from 700 to 3000 MHz. This makes it easier to launch a product for the global market because the same antenna supports all frequency bands in this range.

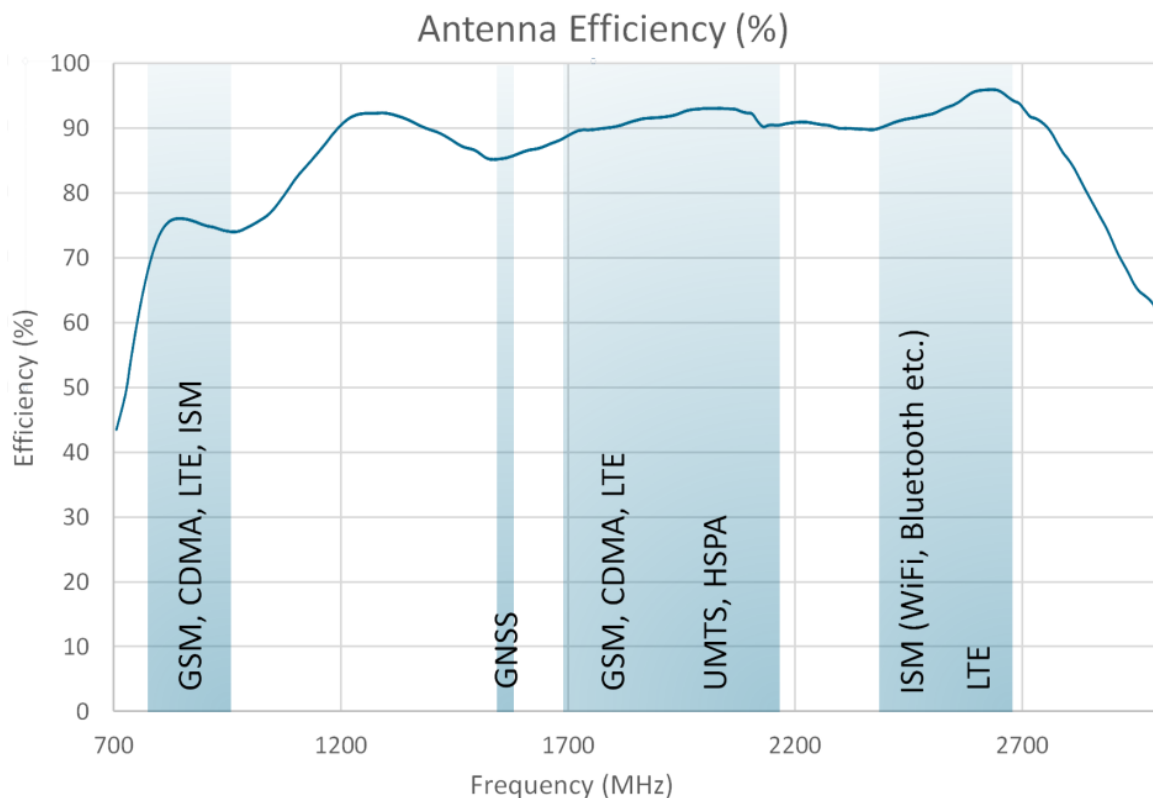
That is, no matter which communication protocols you intend to use in your product, such as Bluetooth, ZigBee, LPWAN (LoRa, Sigfox, Weightless etc), Wi-Fi, 2G, 3G, 4G/LTE, NB-IoT and more, the SLA100 antenna will work very well.



### High Efficiency

The high efficiency of the ShortLink SLA100 wideband antenna enables market leading performance, giving your wireless product excellent range.

Furthermore, it does not need an external ground plane to achieve full performance, due to its design, and thanks to the possibility to re-tune the antenna with aid of existing tuning network. This can reduce both the size and number of other components in the system, thus simplifying system design.



## Specification

### Antenna Characteristics

Model	SLA100-UFL
Frequency Range*	700MHz to 3000MHz
Peak Gain at 2.4GHz	+3 dBi
Impedance	50 ohms
Design	Omnidirectional
Size	100x32 mm ( $\pm 0,2$ mm)
Thickness	0,8 mm
Antenna Colour **	Black
Connector	UFL
Operating Temperature	-40 to +85°C
Certifications	CE, RoHS

\* Detailed frequency response specified later in this document

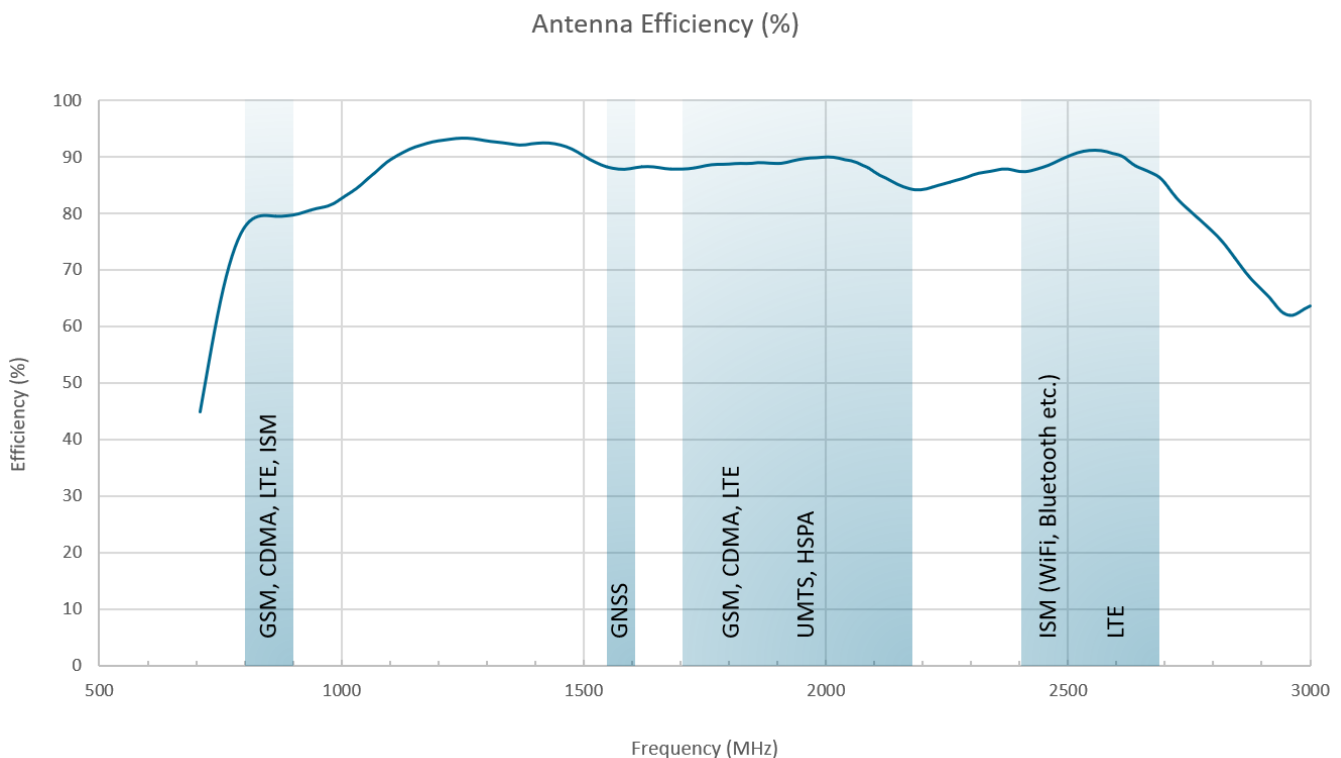
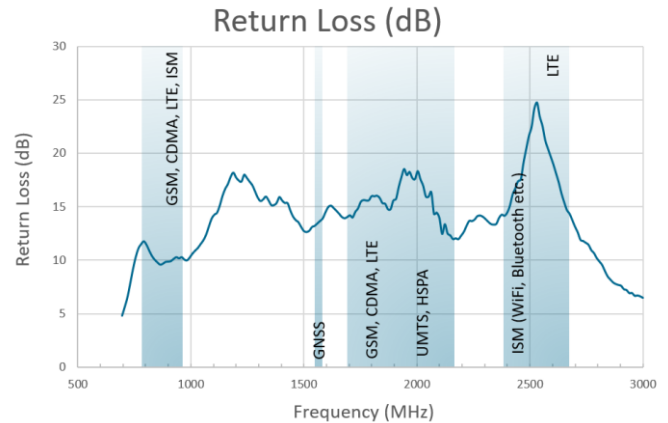
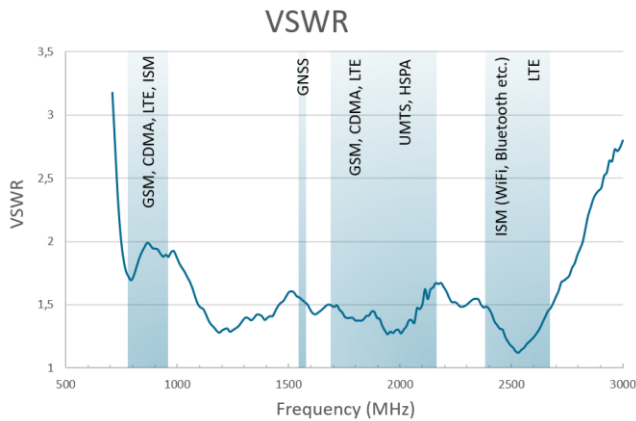
\*\* Custom colours available on request

### Free Space Frequency Response SLA100-UFL

Band (MHz)	800-900	1500-1600	1700-1900	2100	2400	2600-2700
Standard	GSM, CDMA, LTE	GNSS	GSM, CDMA, LTE	UMTS, HSPA	ISM	LTE
Frequency (MHz)	791-960	1559-1610	1710-1990	1755-2170	2400-2500	2500-2690
Avg Efficiency (%)	79	88	90	88	85	88
Avg VSWR	1.9	1.8	1.4	1.4	1.3	1.3
Avg Return Loss (dB)	10.1	10.9	15.5	15.5	17.7	17.7

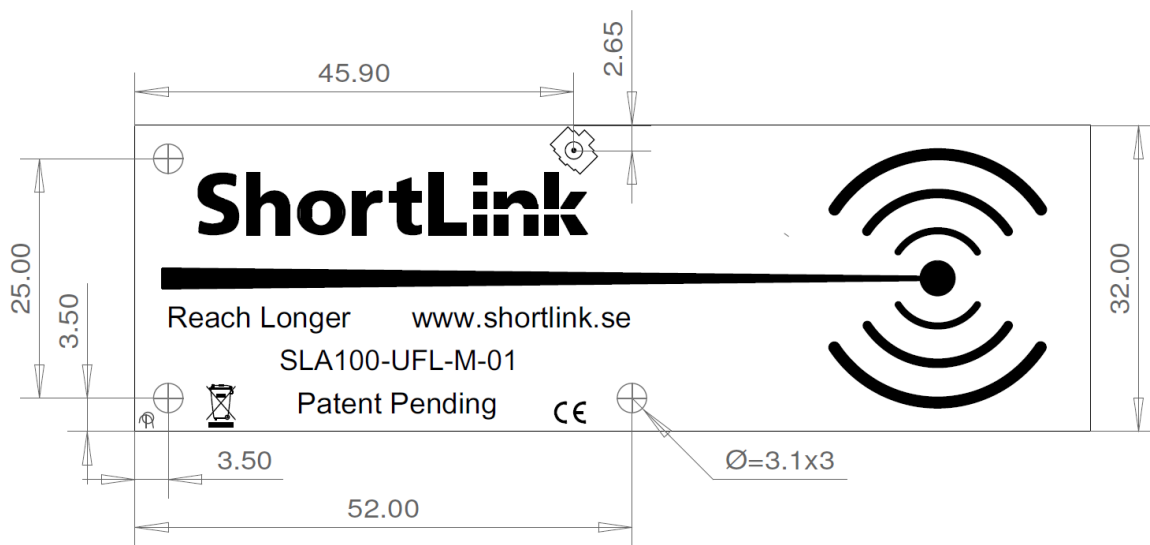
## Antenna Characteristics SLA100-UFL

The antenna characteristics below are based on a standard matching network in in free space. It is possible to tailor the matching network to specific usage scenarios if needed. Please contact ShortLink for further information.



## Mechanical Drawings

### Mechanical Drawing, SLA100-UFL



## Ordering Codes

**SLA100 - XXX - XX - 01**

(1) (2) (3) (4)

**(1) Family**

SLA100 = ShortLink 100mm Omnidirectional IoT Antenna

**(2) Connector**

UFL = UFL Connector

**(3) Matching Network**

M = Matching network on PCB

**(4) Revision Number**

01 = Revision Number 01

## Contacting ShortLink

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