



Concept example

SmartInside

Embedded WiFi Antenna

SmartInside WiFi antenna is a compact antenna solution applied for WLAN/WiFi (IEEE802.11a/b/g/n). It is suitable for applications such as Access Points, Gateways, Routers, Healthcare, Industrial Devices and WiFi enabled monitors, which adapt ISM, WiFi, BLE, ZigBee and RFID technologies.

- Easy surface attachment.
- In-house designed and optimized PCB board.
- Simple tuning method for reaching best performance in different conditions.

Specifications

Electrical

Frequency Range	WLAN b/g/n 2.4 – 2.5 GHz	WLAN a/n/ac 4.9 – 5.85 GHz
VSWR*	< 2.5:1	< 2.5:1
Total Efficiency* (Average)	55%	60%
Peak Gain typical*	1 dBi	2 dBi

Impedance 50Ω

All results are measured as it is in free space. U.FL. cable losses included

Mechanical

Dimension Antenna typical (L x W x H mm)	25 x 9 x 7 mm
Dimension PCB typical (L x W mm)	40 x 15 mm
Weight typical	3 g
Connector	U.FL. connector or similar,
Cable length	Configurable
Temperature range	-40°C to +85°C
Humidity	≤ 95%
Mounting	Embedded

Other

RoHS compliant	
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Smarteq reserves the right to change specifications without prior notice.