Your innovation.

Accelerated.

Reach XtendTM (NN01-001)

Bluetooth, Zigbee, 802.11 b/g/n WLAN (2.4 – 2.5 GHz)



Ignion specializes in enabling effective mobile communications. Using Ignion technology, we design and manufacture optimized antennas to make your wireless devices more competitive. Our mission is to help our clients develop innovative products and accelerate their time to market through our expertise in antenna design, testing and manufacturing.

The Reach Xtend[™] Bluetooth® & 802.11b/g/n WLAN Chip Antenna is engineered specifically for devices operating at 2.4 GHz where high performance and low-cost are mandatory. The Reach Xtend[™] antenna is built on glass epoxy substrate.

Taking advantage of the space-filling properties, this small planar monopole antenna is ideal for use within indoor (highly scattered) environments. The Reach XtendTM Bluetooth® & 802.11b /g WLAN Chip Antenna speeds your time to market by allowing you to integrate it within your industrial design easily and efficiently.

Product Benefits

High efficiency

Increases your device's range and lengthens battery life.

Omnidirectional pattern

Optimizes device usage due to a uniform radiation pattern.

Small Volume

Allows integration into space limited areas easily and efficiently.

Multi-mode support

Works for Bluetooth and Wi-Fi 802.11 b/g/n standards.

6.7 mm x 6.7 mm x 0.8 mm (image larger than real size)

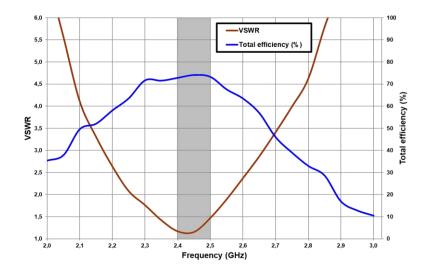


PAT US 7,148,850, US 7,202,822

Last Update: January 2021



VSWR and Total Efficiency (%) vs. Frequency (GHz)



Technical Features	2.4 GHz – 2.5 GHz
Average Efficiency	74.0 %
Peak Gain	1.3 dBi
VSWR	< 2:1
Radiation Pattern	Omnidirectional
Polarization	Linear
Weight (approx.)	0.1 g
Temperature	-40 to + 125 °C
Impedance	50 Ω
Dimensions (L x W x H)	6.7 mm x 6.7 mm x 0.8 mm

Measures from the evaluation board (48.0 mm x 23.0 mm x 1.0 mm)

See pictures of the evaluation boards and graphs of the specs in the <u>User Manual</u>.

For additional information, please visit <u>www.ignion.io</u> or contact <u>info@ignion.io</u>.

If you need assistance to design your matching network, please contact support@ignion.io, or try our free-of-charge¹ NN Wireless Fast-Track design service, you will get your chip antenna design including a custom matching network for your device in 24h¹. Other related to NN's range of R&D services is available at: https://www.ignion.io/rdservices/

¹ See terms and conditions for a free NN Wireless Fast-Track service in 24h at: https://www.ignion.io/fast-track-project/

ignion^w

Contact: support@ignion.io +34 935 660 710

Barcelona

Av. Alcalde Barnils, 64-68 Modul C, 3a pl. Sant Cugat del Vallés 08174 Barcelona Spain

Shanghai

Shanghai Bund Centre 18/F Bund Centre, 222 Yan'an Road East, Huangpu District Shanghai, 200002 China

New Dehli

New Delhi, Red Fort Capital Parsvnath Towers Bhai Veer Singh Marg, Gole Market, New Delhi, 110001 India

Tampa

8875 Hidden River Parkway Suite 300 Tampa, FL 33637 USA