WE866A1-P Series

Wi-Fi IEEE 802.11b/g/n Embedded

19 mm

15 mm

2.2 mm
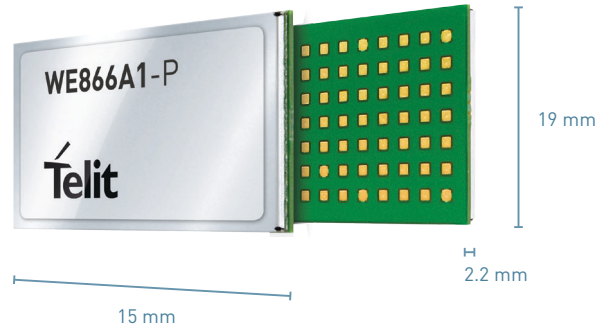
Product Description

Wi-Fi Only, Ultra Compact LGA Module

Integrating Wi-Fi™ to your IoT solution is simplified with the use of our pre-certified Wi-Fi™ module, WE866A1-P. The module's small footprint and rich features make it perfect for network applications such as smart energy, sensor networks, home automation, and nearly any other application that benefits from Wi-Fi support.

This add-on WLAN (IEEE 802.11 b/g/n) module provides a secure, powerful solution for customers looking for a simple and fast way to embed local area communication to Wi-Fi standards with cellular backhaul to powered by our xE910 line of 2G, 3G, LTE modules.

The module's breadth of capabilities in an LGA package include an integrated MAC/Baseband processor, TCP IP stack, serial flash, crystals, RF front-end components and band pass filter. Optimized to work with an external microprocessor, WE66A1-P provides the fastest path to adding 2.4 GHz wireless capability to your product.

Key Features

- Pre-certified: CE/FCC/IC/Wi-Fi

- Low Power with power management features: 3.1V - 4.5V, 3.8V nominal

- M2M-grade Temperature Range

- Security features

- Convenient, compact LGA form-factor

Combine your **WiFi** module with

Cellular modules

Complete, Ready to Use Access to the Internet of Things

IoT MODULES

IoT CONNECTIVITY

IoT PLATFORMS

IoT KNOW-HOW

ENABLING END-TO-END IoT SOLUTIONS

WE866A1-P Series

Product Features

- xE866 Telit FF
- LGA footprint
- *IP Stack (IPV4 and IPV6): TCP, UDP, RAW, ARP, DHCP, DNS, ICMP, SLL 3.0, TLS 1.2, HTPP(s) server
- Industry-Standard BSD Socket Application Programming Interfaces (APIs)
- *16 TCP/UDP or RAW sockets
- *6 TLS/SSL sockets
- Powerful Crypto Engine for Fast, Secure Wi-Fi and Internet Connections with 256-Bit AES Encryption for TLS and SSL Connections
- Roles: Station mode, AP with up to 4 stations, Browser and Wi-Fi Direct™
- WPA2 Personal and Enterprise Security
- 2.4GHz, channel 1-13* (2.412 GHz - 2.472*) *Standalone value

Environmental

- Dimensions 15 x 19 x 2.2mm
- LGA footprint
- Temperature range: -40°C to +85 °C

Interfaces

- 4-wire UART
- SPI interface

Approvals

- CE, FCC/IC certified
- Wi-Fi certified
- IEEE 802.11b/g/n

Electrical

- Supply Voltage
  - Nominal: 3.8 V
  - Range: 3.1 - 4.5 V
- Data Rate: up to 72.2Mbps (802.11n, MCS7)
- TX Power
  - 17.25 dBm with 802.11b
- RX Sensitivity
  - 94.7 dBm with 802.11b

Data Standalone value

- Max Throughput: 12 Mbps in TCP, 16 Mbps in UDP

Join the Telit Technical Forum

For a quicker and more rewarding integration experience join the Telit Technical Forum. There you can browse the first open forum covering all IoT topics, get direct support by region (EMEA, North America, Latin America, APAC), take part in this quickly growing IoT community and exchange experiences.