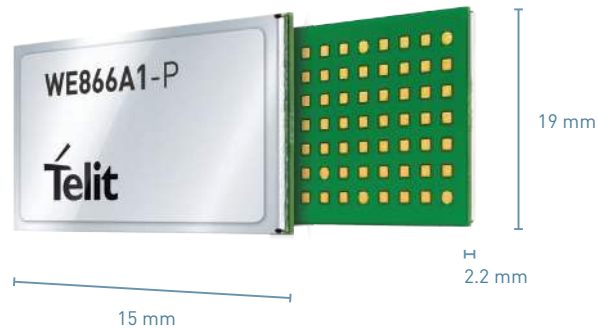


WE866A1-P Series

Wi-Fi IEEE 802.11b/g/n Embedded



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, WE866A1-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

AVAILABLE FOR

- EMEA
- North America
- Latin America
- APAC
- Africa
- Russia

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



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, HTTP(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

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