

SIMPLELINK™ WI-FI CC3220 低功耗高加密之無線微控制器

SIMPLELINK™ WI-FI CC3220 低功耗高加密之無線微控制器; 領先業界的全方位資料安全防護

SimpleLink™ Wi-Fi® Wireless MCU CC3220
Low Power, Advanced Security, Easy Integration

Applications MCU
User's dedicated ARM-Cortex M4 MCU
Programmable Applications MCU
• Supports no-OS or TI-RTOS/Free-RTOS
Application-dedicated Memory
• 256KB RAM
• Additional 1MB XIP Flash (Opt.)
Rich Set of Peripherals & Timers
27 I/O pins with flexible muxing options
• UART, I2C, SPI, SD, I2S, ADC, 8-bit parallel camera
• Timers & PWM
Enhanced Features
• Rich multi-layer set of security features, within a single chip, to help protect IP and data
• HW Crypto engines: AES, DES, SHA/MD5, CRC
• Enables applications with HomeKit, AWS, Azure, Google IoT, IBM Watson
• SimpleLink™ Connected MCU Platform support

Lowest Power
Run for Years on Batteries

Wi-Fi and Internet Connectivity Here

CC32xx Wireless-MCU

Applications MCU
ARM® Cortex™-M4 @80MHz
256KB RAM + Opt. 1MB XIP Flash
User Application

Network Processor
ROM
Internet: HTTP, TLS/SSL, TCP/IP
Wi-Fi: MAC, Baseband, Radio
HW Crypto Engine
Power Management

Multi Layered Security Features
Wi-Fi, Internet, Application and Files

Network Processor
The NWP handles all Wi-Fi and internet protocols

Wi-Fi Core
• 802.11 b/g/n at 2.4GHz
• Modes: STA, AP, Wi-Fi Direct®
• Wi-Fi Security: WEP, WPA, WPA2
• Throughput: up to 16Mbps

Built In Power Management
• Integrated DC2DC
• V_{bat} (2.1~3.6V) or Pre-regulated: 1.85 V
• Low power modes
• Hibernate (4.5uA)
• Low power deep sleep (135uA)
• Rx beacon listen (37mA)

Internet & Application Protocols
• Embedded webserver (HTTPs)
• Supports IPv4 & IPv6 TCP/IP Stack
• 16 Sockets (6 TLS v1.2 / SSL 3.0)

Powerful HW Crypto Engine
• Enables fast secured Wi-Fi and internet connections within 200mSec
Industrial Temp: Supports -40°C to +85°C

TEXAS INSTRUMENTS

TI Information - Selective Disclosure