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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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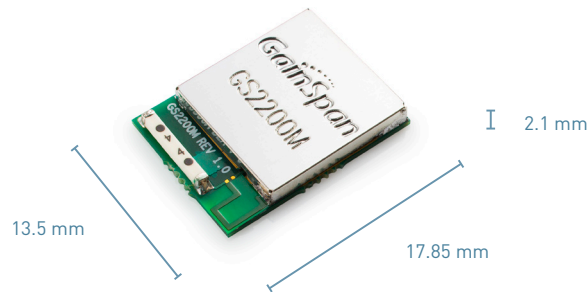
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GS2200M Series

Wi-Fi 802.11 b/g/n Embedded



Product Description

The GS2200M series is a fully integrated Wi-Fi module with an extremely small footprint that provides an easy, cost-effective way for manufacturers to add Wi-Fi connectivity to their products. Module comes with optional integrated chip antenna or UFL connector. Intended for a variety of size-constrained applications, the ~250 sq. mm comes with optional on-board chip antenna or U.FL connector, 4MB FLASH, industry-leading SRAM resources, a high bit-rate 16-bit sigma-delta ADC, 12-bit ADC, and 19 GPIO supporting most interfaces.

This module provides a low-cost, high-speed serial to Wi-Fi connection to an embedded design built on an 8/16/32-bit microcontroller, through UART, SPI, or SDIO interfaces.

The GS2200M is an ideal solution for organizations with limited Wi-Fi or RF expertise or for those seeking faster time to market, as it reduces RF design time and removes the burden of testing and certification. The module is IEEE 802.11b/g/n compliant, and meets major global regulatory and Wi-Fi Alliance certification requirements.

The module runs the full Wi-Fi and TCP/IP networking stacks, completely offloading the host microcontroller. It supports a complete suite of security protocols, also without tasking the host microcontroller, including WPA/WPA2-Enterprise and Personal security modes, and upper layer security protocols such as TLS/SSL and HTTPs. Alternatively, it can be run self-contained without a host.

Easy to provision, the module can be set up from a smartphone or laptop through the innovative Limited AP mode or with Wi-Fi Protected Setup (WPS).

The module is single-sided with solder pads on the bottom for the I/O and PWR/GND connections for soldering down on the product's baseboard. It is intended for both line-powered and battery-powered applications.

The GS2200M module is easily designed into embedded systems, allowing customers to develop a broad array of devices and appliances that connect to other local devices or to the Internet over Wi-Fi. Applications include smart energy, smart home, healthcare and fitness, industrial controls, commercial building automation, and audio/video consumer electronics

Key Benefits

- Extremely compact for size-constrained applications
- Adds low power, high speed Wi-Fi and Internet connectivity to any device with a microcontroller and serial host interface or as the standalone application microcontroller
- Certified module reduces development time, testing and certification, accelerating time to market
- Easy smartphone provisioning with Limited AP or Wi-Fi Protected Set-up (WPS)
- Ultra-low power through dynamic power management modes and optional off module DC to DC components

AVAILABLE FOR

- EMEA
- North America
- Latin America
- Japan
- Korea
- Australia

Combine your Wi-Fi module with

Short Range or Cellular modules



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Complete, Ready to Use Access to the Internet of Things



IoT MODULES



IoT CONNECTIVITY



IoT PLATFORMS



IoT KNOW-HOW



GS2200M Series

| | |
|-------------------------------|---|
| Radio Protocol | IEEE 802.11 b/g/n |
| Pin Count | 66 pins (30 GND) |
| RF Output Power (Typical) | +15 dBm (802.11b 1Mbps), +14 dBm (802.11g 6Mbps), +14 dBm (802.11n MCS0) |
| Rx Sensitivity (Typical) | -91 dBm (802.11b 1Mbps), -88 dBm (802.11g 6Mbps), -88 dBm (802.11n MCS0) |
| RF Operating Frequency | 2.4 - 2.495 GHz |
| Supported Data Rates | 72, 65, 58, 43, 29, 22, 14, 7 Mbps (802.11n), 54, 48, 36, 24, 18, 12, 9, 6 Mbps (802.11g) 11, 5.5, 2, 1 Mbps (802.11b) |
| Antenna Option | Onboard chip antenna or UFL connector |
| Operating Temperature | -40° to +70°C |
| Security Protocols | WPA/WPA2 - Personal, WPA/WPA2 - Enterprise (PEAP, EAP-FAST, EAP-TLS, EAP-TTLS), WEP, TLS/SSL Client and Server, HTTPs |
| Networking Protocols | TCP, UDP, IPv4, IPv6, TLS Client and Server, SNMP client, DHCP Client and Server v4, DHCP Client and Server v6, DNS Client and Server, mDNS, DNS-SD, HTTP Client and Server, and XML Parser |
| Certifications and Compliance | FCC, IC, TELEC, CE/ETSI, ROHS, Wi-Fi CERTIFIED |
| I/O Interfaces | SPI, UART, SDIO, I ² C, I ² S, GPIO (19), 16 & 12 bit ADC, JTAG, PWM (3), RTC |
| Host Connections | UART, SPI, SDIO |
| Internal Flash | 4 MB |
| Outline Dimensions | 13.5mm x 17.85mm x 2.1mm |
| I/O Voltage | 3.3V or 1.8V |
| Operating Voltage | 2.7-3.6V |
| V _{BAT} | 1.6-3.6V |

Models

| | |
|-----------|--------------|
| GS2200MIZ | Chip Antenna |
| GS2200MIE | U.FL |

GS2200MIZ System Block Diagram



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