EM5625 WIRELESS MODULE

A POWERFUL CDMA 1xEV-DO ENGINE

Built with the latest CDMA 1xEV-DO technology, the Sierra Wireless EM5625 wireless module is now available to the marketplace. Supporting third generation (3G) digital cellular standards and the latest Zero IF-based technology from QUALCOMM, the EM5625 wireless module enables rapid development of exceptional voice and high-speed data products and solutions.

INTERFACE AND SOFTWARE

A comprehensive hardware and software interface offers premium functionality and performance to users. Sierra Wireless’ flexible Command and Status (CnS) interface and key software applications support compelling voice and data products. Extensive supporting software, applications, and tools, including the Radio Interface Layer communication manager, phone tools, installation and activation wizards, IOTA clients, mobile IP support and essential hardware drivers simplify the certification and commercialization process.

EM5625 is the latest in a series of successful Sierra Wireless CDMA products. The EM5625 module is a complete 3G-enabled wireless solution, offering voice, data, and SMS functionality.

Location based services (LBS) are supported through an API, and the product is fully E911 compliant, integrating gpsOne technology and Advanced Forward-Link triangulation (AFLT).

SUPERIOR SUPPORT TO HELP WITH INTEGRATION REQUIREMENTS

Backed by a world-class 1xEV-DO development and support team, users can depend on Sierra Wireless to provide comprehensive design and integration services to expedite product development cycles. Look at Sierra Wireless as an extension of your development team to efficiently design, develop, certify and launch exceptional wireless data products.

Sierra Wireless is your only source for wireless data.

Go Wireless. Get connected.
EM5625

TECHNICAL SPECIFICATIONS

**PACKAGE:**
- Length: 45 mm
- Width: 35 mm
- Thickness: 5 mm
- Weight: 12 g

**POWER:**
- Battery or 3.4 – 4.5V power supply
- Low talk current
- Low stand-by current

**ANTENNA CONNECTOR:**
- 50 Ohm compatible
- Antenna launch option for soldered antennas
- RF connectors, both board top-side and bottom-side

**FREQUENCY BANDS:**
- Dual Band
  - 800MHz US Cellular band
  - 1900MHz US PCS band
  - GPS Band

**HOST INTERFACE:**
- 60-Pin Board-to-Board Connector
- USB
- UART (Double Clocked) Serial Interface
- Differential Microphone and Speaker Inputs
- Discrete MIDI for Host Handshaking and LED Control
- Auxiliary ADC Inputs
- R-UIM

**ENVIRONMENTAL:**
- Operating Temperature: -30 to 60° Celsius
- Storage Temperature: -40 to 85° Celsius

**ADDITIONAL FUNCTIONALITY:**
- Dual serial ports
- AT command interface
- Sierra Wireless proprietary Control and Status (CrS) language interface
- Software Development Kit (SDK) including Application Program Interface (API)

**CDMA STANDARDS**
- IS-856 (CDMA 1xEV-DO)
- IS-2000 (CDMA 1xRTT)
- IS-95 A/B
- IS-801 Location Services
- IS-707-A Data
- IS-637-A SMS
- IS-683-A Service Provisioning
- IS-683-B (partial)
- Support for gpsOne™

**DATA SERVICES:**
- CDMA 1xEV-DO (IS-856)
  - Forward link up to 2.4Mbps
  - Reverse link 153.6 Kbps
- CDMA 1xRTT (IS-2000)
  - Forward and reverse link speeds up to 153.9Kbps

**VOICE SERVICES:**
- The EM5625 supports IS-127 and IS-733 Vocoder:
  - 13QCELP Vocoder
  - EVRC Vocoder
  - TTY/TID

FOR MORE INFORMATION

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Sierra Wireless, the leader in wireless data communications hardware and software products

Sierra Wireless is a recognized industry leader in developing wireless data products and enabling software for portable and industrial applications. Sierra Wireless’s award winning products include:

- AirCard line of PC Cards
- Voq Professional Phone™, a unique version of a Windows Mobile™-based Smartphone
- MP rugged wireless modem line for EDGE/GSM/GPRS and CDMA 1X networks
- Embedded module series for 2G and 3G CDMA networks
- Software Development Kits (SDKs) and sample code.

Now Sierra Wireless enhances your wireless access choices with high-performance broadband wireless products to meet your worldwide needs.