

# MC8755 AND MC8765 PCI EXPRESS MINI CARDS

## POWERFUL, COST EFFECTIVE, STANDARDS-BASED HSDPA ENGINES

### AIRCARD ENABLED™ SOLUTIONS

The MC8755 and MC8765 PCI Express Mini Cards are powerful, cost effective solutions that easily integrate into laptops and other devices offering complete wireless data solutions over HSDPA-capable UMTS networks. Embedded right into computing devices for best possible performance, users will be 'AirCard Enabled™', and receive the same high-performance wireless wide area connectivity customers have come to expect from Sierra Wireless' award-winning AirCard products. Now available, the MC8755 and MC8765 PCI Express Mini Cards will truly change the way people access e-mail, the Internet and corporate applications through their computing devices. Designed for customers in Europe, the Middle East, Africa and Asia, the MC8755 operates on the 2100 MHz band, while the MC8765 operates on the 850 and 1900 MHz bands for use in North America.

### POWERFUL HSDPA ENGINES

The MC8755 and MC8765 PCI Express Mini Cards are the latest in a series of successful Sierra Wireless GSM products. Built using the latest HSDPA technology, the MC8755 and MC8765 Mini Cards are complete 3G-enabled wireless solutions, offering data and SMS functionality.

- Typical download rates of 600-800kbps, peak speeds up to 1.8Mbps\*
- Uses MSM6275™ chipset from QUALCOMM
- MC8755 supports single band UMTS (HSDPA): 2100 MHz
- MC8765 supports dual-band UMTS (HSDPA): 850/1900 MHz
- Both MC8755 and MC8765 support quadband EDGE/GPRS/GSM: 850/900/1800/1900 MHz
- Support third generation (3G) digital cellular standards
- Enable rapid development of exceptional high-speed data products
- Comprehensive WHQL-certified USB software driver architecture

The MC8755 and MC8765 PCI Express Mini Cards have standalone carrier certification, and have completed infrastructure interoperability lab testing so customers can efficiently integrate, certify, and achieve the best time-to-market possible for their products.

### PCI EXPRESS MINI CARD STANDARD

Based on the PCI Express Mini Card specification, the MC8755 and MC8765 offer premium functionality and performance. Sierra Wireless' flexible Command and Status (CnS) interface and key software applications support compelling data products. Extensive software, applications and tools, installation and activation wizards, and essential hardware drivers simplify the certification and commercialization process. Measuring 51 x 30 x 4.5 mm and weighing in less than 12g, the MC8755 also complies with new European Union directives on RoHS (Restrictions on Hazardous Substances).

\* Subject to network conditions, see service provider for details



### SUPERIOR SUPPORT TO HELP WITH INTEGRATION REQUIREMENTS

Sierra Wireless has extensive experience working with customers to develop and bring GSM data solutions to market on a timely basis. Backed by a leading development and support team, customers can depend on Sierra Wireless to provide comprehensive software interface, development and integration services and a full suite of complementary software drivers to expedite product development cycles. Look at Sierra Wireless as a reliable extension of your development team to efficiently design, develop, certify, and launch exceptional wireless data products.

Sierra Wireless is your only source for AirCard Enabled wireless data solutions.

- **POWERFUL, COST EFFECTIVE HSDPA ENGINES THAT INTEGRATE EASILY INTO DEVICES**
- **BEST IN CLASS TECHNICAL AND INTEGRATION SUPPORT AND PROFESSIONAL SERVICES ACCELERATE END PRODUCT TIME-TO-MARKET**
- **COMPREHENSIVE SOFTWARE OFFERING, DEVELOPMENT KIT AND APPLICATIONS SIMPLIFIES DEVELOPMENT PROCESS**
- **USES LATEST QUALCOMM TECHNOLOGY**



PCI Express Mini Card Standard

Superior Integration Support

Fastest Time to Market

AirCard Enabled™



**MC8755 AND MC8765  
PCI EXPRESS MINI CARDS**

**TECHNICAL SPECIFICATIONS**

**PACKAGE:**

Length: 51 mm  
Width: 30 mm  
Thickness: 4.5 mm  
Weight: under 12 g

**POWER:**

Input Voltage Range: 3.0 ~ 3.6V  
Low talk current  
Low stand-by current

**ANTENNA CONNECTOR:**

50 Ohm compatible  
U. FL RF connector

**FREQUENCY BANDS:**

MC8755: 2100 MHz UMTS  
MC8765: 850/1900 MHz UMTS  
Power class 3 (+23dBm)

MC8755 and MC8765:  
850MHz GSM/GPRS/EDGE  
900MHz GSM/GPRS/EDGE  
1800MHz GSM/GPRS/EDGE  
1900MHz GSM/GPRS/EDGE  
EDGE – Power Class E2  
PCS/DCS Power Class 1  
GSM – GMSK Power Class 4

**HOST INTERFACE:**

52-Pin Edge Connector  
Pinout supports PCI-Express Mini Card  
Specification Rev 1.1  
USB 2.0  
Software configurable LED control  
U-SIM

**ENVIRONMENTAL:**

Operating Temperature: -25 to 60° Celsius  
Storage Temperature: -40 to 85° Celsius

**ADDITIONAL FUNCTIONALITY:**

AT command interface  
Software Development Kit (SDK) including Application  
Program Interface (API)  
RoHS compliant

**DATA SERVICES:**

MC8755: 2100 MHz UMTS  
MC8765: 850/1900 MHz UMTS  
Forward link up to 1.8Mbps  
Reverse link up to 384Kbps

MC8755 and MC8765:  
850/900/1800/1900 MHz GSM/GPRS/EDGE  
Forward link up to 216 Kbps  
Reverse link up to 108 kbps

**FOR MORE INFORMATION**

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**SIERRA WIRELESS, THE LEADER IN WIRELESS WIDE AREA MOBILE COMPUTING**

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

- AirCard line of PC Cards
- Line of PCI Express Mini Cards for both CDMA and GSM technology tracks
- MP rugged wireless modem line for EDGE/GSM/GPRS and CDMA 1X networks
- Embedded module series for CDMA 1X and CDMA 1xEV-DO networks
- Software Development Kits (SDKs)

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



**SIERRA WIRELESS  
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PCI EXPRESS  
MINI CARDS**

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