

MC8790 PCI EXPRESS MINI CARD POWERFUL, COST EFFECTIVE, STANDARDS-BASED HSPA ENGINE

MC8790 PCI EXPRESS MINI CARD TECHNICAL SPECIFICATIONS

■ Technology

PCI Express Mini Card
MSM6290 Chipset
UMTS with HSPA Category 8
(7.2 Mbps downlink)
HSUPA Category 5 (2.0 Mbps uplink) &
Upgradeable to 5.76 Mbps
EDGE/GPRS MS Class 12
Receive equalizer with antenna
Diversity on 850/1900/2100MHz
USIM support
PC/SC interface
Qualcomm GpsOne® technology

■ Power

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

■ Antenna Diversity Support

850/1900/ 2100 MHz

■ Antenna Connector

50 Ohm compatible
U. FL RF connector

■ Bands

850/1900/2100MHz WCDMA
Power class 3 (+24dBm)
850/900MHz GSM/GPRS/EDGE
GSM Power class 4/EDGE E2
1800/1900 MHz GSM/GPRS/EDGE
GSM Power Class 1/EDGE E2
GPS/1575.42 MHz

■ Data Services

850/1900/2100 MHz WCDMA
Downlink up to 7.2Mbps
Uplink up to 2.0Mbps (upgradeable
to 5.76 Mbps)
850/900/1800/1900 MHz
GSM/GPRS/EDGE
Downlink up to 236 Kbps
Uplink up to 236 kbps

■ Host Interface

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

■ Operating Systems

Windows® XP / Vista
Linux
Windows® CE
Proprietary OS

■ Additional Functionality

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

■ Package

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

■ Environmental

Operating Temperature: -25 to +60° C
Storage Temperature: -30 to +85° C

■ For More Information

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CONNECTING PEOPLE AND SYSTEMS TO MOBILE BROADBAND
NETWORKS AROUND THE WORLD

Sierra Wireless is a recognized industry leader in developing wireless data products and enabling software. Sierra Wireless modems and software connect people all over the world with mobile broadband networks that keep them in touch, informed, and productive from wherever they need to be. The Company offers a diverse product portfolio addressing enterprise, consumer, original equipment manufacturer, machine-to-machine, and specialized vertical industry markets. Sierra Wireless also provides professional services to customers requiring expertise in wireless design, integration, and carrier certification.

For more information, please visit our website, www.sierrawireless.com.

SIERRA WIRELESS MC8790 PCI EXPRESS MINI CARD

PCI Express Mini Card Standard

Superior Integration Support

Fastest Time to Market

Sierra Wireless Empowered™



MC8790 PCI EXPRESS MINI CARD POWERFUL, COST EFFECTIVE, STANDARDS-BASED HSPA ENGINE

■ Sierra Wireless Empowered™ Solutions

The powerful, cost effective MC8790 PCI Express Mini Card easily integrates into a variety of OEM devices to offer complete wireless data solutions over HSUPA-capable UMTS networks. Embedded right into computing devices for best possible performance, users will be 'Sierra Wireless Empowered™', and receive the same high-performance wireless wide area connectivity customers have come to expect from Sierra Wireless' award-winning products. From point-of-sale devices to ruggedized laptops, the MC8790 will turn hardware devices into powerful data communications tools.

■ PCI Express Mini Card Standard

Based on the PCI Express Mini Card specification, the MC8790 offers 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 12 g, the MC8790 complies with new European Union directives on RoHS (Restrictions on Hazardous Substances).

■ Powerful HSPA Engines

The MC8790 PCI Express Mini Card provides wide area wireless data access at speeds up to 7.2 Mbps downlink and up to 2.0 Mbps uplink (upgradeable to 5.76 Mbps). It offers UMTS/HSPA and quad-band GSM/GPRS/EDGE network access for roaming on high-speed networks worldwide. In addition, antenna diversity improves fringe performance on global HSPA networks using the 850, 1900, and 2100 MHz bands.

- Peak downlink speeds up to 7.2 Mbps and peak uplink speeds up to 2.0 Mbps*
- Upgradeable to 5.76 Mbps Uplink
- Uses MSM6290™ chipset from QUALCOMM
- Supports tri-band UMTS (HSPA): 850, 1900, and 2100 MHz
- Receive equalizer with antenna diversity on the 850, 1900, and 2100 MHz bands
- Supports quadband EDGE/GPRS/GSM: 850/900/1800/1900 MHz
- Supports third generation (3G) digital cellular standards
- Enables rapid development of exceptional high-speed data products
- Comprehensive WHQL-certified USB software driver architecture

* 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. Sierra Wireless is a reliable extension of your development team and can help efficiently design, develop, certify, and launch exceptional wireless data products. Sierra Wireless is your only source for Sierra Wireless Empowered™ wireless data solutions.



■ POWERFUL, COST EFFECTIVE ENGINES FOR HSUPA-CAPABLE UMTS NETWORKS

■ 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

■ UPGRADEABLE TO 5.76 Mbps UPLINK