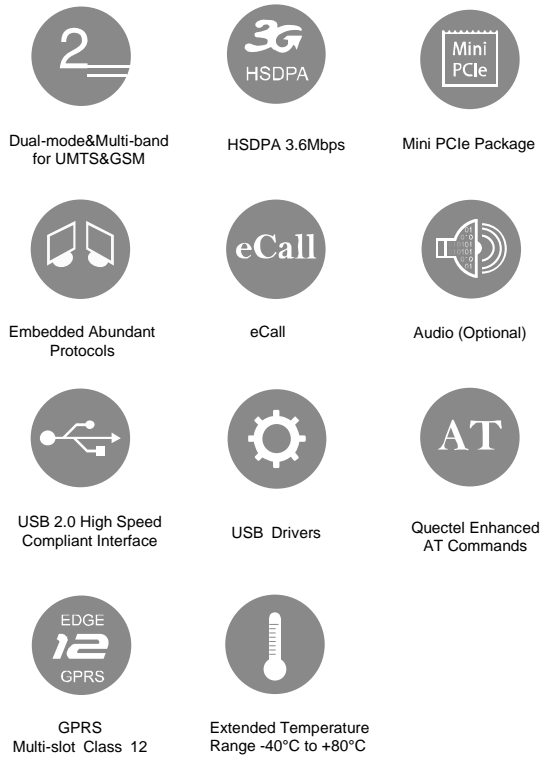
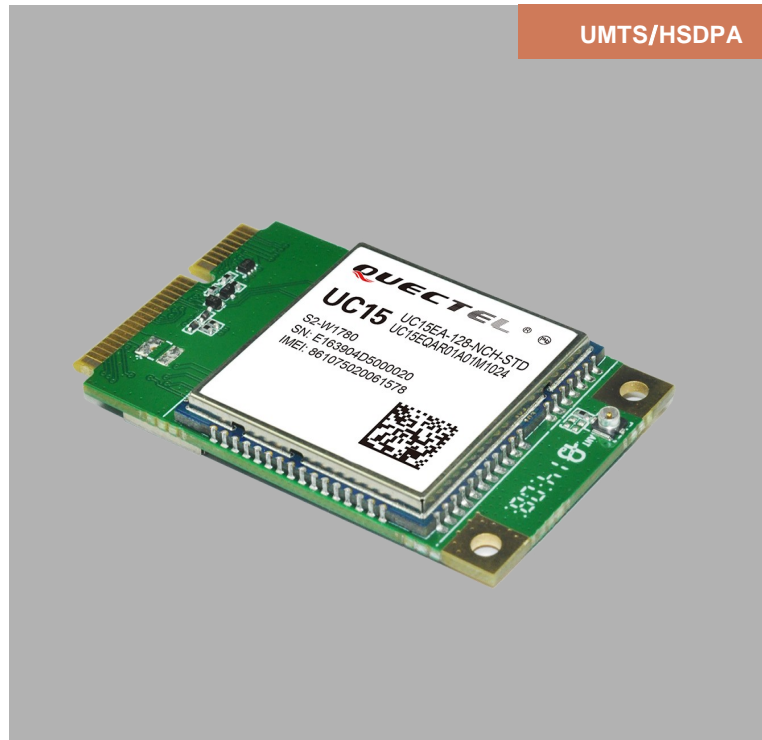


# Quectel UC15 Mini PCIe UMTS/HSDPA Module



## Key Benefits

- ☞ Worldwide UMTS/HSDPA and GSM/GPRS/EDGE coverage
- ☞ Standard Mini PCIe form factor maximizes the convenience for customers to design and use
- ☞ High-quality data and image transmission even in hazard conditions and dark environment
- ☞ Fast time-to-market:  
Reference designs, evaluation tools and timely technical support minimize design-in time and development efforts
- ☞ Robust mounting and interfaces



UC15 Mini PCIe is the latest Quectel UMTS/HSDPA module featuring a maximum data rate of 3.6Mbps downlink and 384Kbps uplink. It is designed to provide customers with global network coverage on the connectivity of HSDPA/WCDMA, and it is also fully backward compatible with existing EDGE and GSM/GPRS networks through multi-band combination of dual-band WCDMA and dual-band GSM.

The tiny profile of 51.0x30.0x4.9mm in standard Mini PCIe form factor and highly integration level enable integrators and developers to easily design their applications and truly benefit from low power consumption and convenient Plug and Play Function.

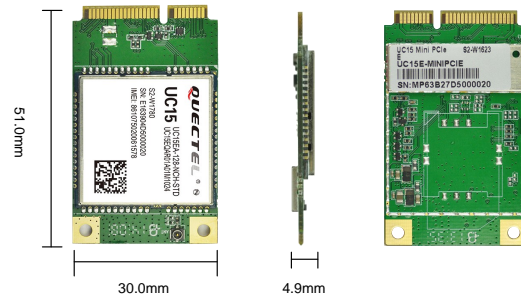
With an extended temperature range from -40°C up to 80°C, UC15 Mini PCIe functions reliably in extreme environments for use outdoors or inside at sites that lack cooling and heating systems.

A rich set of Internet protocols, industry-standard interfaces (USB/UART/Analog Audio/LED\_WWAN) and abundant functions (USB drivers for Windows XP, Windows Vista, Windows 7, Windows 8, Windows CE, Linux, Android) extend the applicability of the module to a wide range of commercial and industrial M2M applications.

# Quectel UC15

## Mini PCIe

### UMTS/HSDPA Module



#### General Features

<b>Frequency Bands</b>	<b>UMTS/HSDPA:</b> 900/2100MHz (UC15-E Mini PCIe)
	<b>GSM/GPRS/EDGE:</b> 900/1800MHz
<b>HSDPA</b>	Release 5 (category 6)
<b>EDGE</b>	Downlink only
<b>GPRS</b>	Multi-slot Class 12
<b>UMTS</b>	Release 99/5
<b>GSM</b>	Release 99/4
<b>Supply Voltage Range</b>	3.0 ~ 3.6V, Typ. 3.3V
<b>Operation Temperature</b>	-40°C ~ +80°C
<b>Dimensions</b>	51.0×30.0×4.9mm
<b>Weight</b>	Approx. 9.3g
<b>Control via AT commands</b>	3GPP TS27.007, 27.005 and other enhanced AT Commands

#### Specifications

<b>SMS</b>	Point-to-point MO and MT SMS Cell Broadcast Text and PDU Mode								
<b>DATA</b>	<table border="0"> <tr> <td><b>HSDPA</b></td> <td>Max.3.6Mbps</td> </tr> <tr> <td><b>UMTS</b></td> <td>Max.384Kbps (DL)/Max.384Kbps (UL)</td> </tr> <tr> <td><b>GPRS</b></td> <td>Max.85.6Kbps (DL)/Max.85.6Kbps (UL)</td> </tr> <tr> <td><b>CSD</b></td> <td>64Kbps</td> </tr> </table>	<b>HSDPA</b>	Max.3.6Mbps	<b>UMTS</b>	Max.384Kbps (DL)/Max.384Kbps (UL)	<b>GPRS</b>	Max.85.6Kbps (DL)/Max.85.6Kbps (UL)	<b>CSD</b>	64Kbps
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<b>Echo Arithmetic</b>	Echo Cancellation Noise Reduction								
<b>Protocols</b>	TCP/UDP/PPP/FTP/HTTP/SMTP/MMS/SSL								

#### Special Features

<b>USB Serial</b>	Windows XP, Windows Vista, Windows 7, Windows 8, Windows CE5.0/ 6.0/7.0, Windows Mobile 6.1/6.5*, Linux / Android				
<b>Drivers</b>	<table border="0"> <tr> <td><b>RIL</b></td> <td>Windows CE6.0*, Windows Mobile 6.1/6.5 *</td> </tr> <tr> <td><b>MUX</b></td> <td>Linux /Android</td> </tr> </table>	<b>RIL</b>	Windows CE6.0*, Windows Mobile 6.1/6.5 *	<b>MUX</b>	Linux /Android
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<b>eCall</b>	Accident, Emergency Services				
<b>Firmware Update</b>	Firmware Update via USB Interface				
<b>QuecFile</b>	File System Access and Management				
<b>FOTA</b>	QuecFOTA, DFOTA				
<b>QuecLocator</b>					

#### Electrical Characteristics

<b>Output Power</b>	Class 3 (24dBm +1/-3dB) for UMTS Bands Class 4 (33dBm ±2dB) for GSM 900MHz Class 1 (30dBm ±2dB) for GSM 1800MHz
<b>Consumption</b>	5.8mA@Sleep 80mA@Idle, USB active 320mA@GSM voice, max power 600mA@UMTS voice, max power 400mA@GPRS data, max power 520mA@HSDPA, max power
<b>Sensitivity</b>	-110dBm@ UMTS Bands -108.5dBm@ GSM 900MHz -108.5dBm@ GSM 1800MHz

#### Interfaces

<b>USB</b>	2.0 High Speed
<b>Analog Audio</b>	One Analog Input and one Output Channel (Optional)
<b>Digital Audio</b>	PCM (Optional)
<b>UART</b>	1×Full Functions
<b>USIM</b>	1.8V/3V(USIM hoder optional)
<b>LED_WWAN#</b>	Network Status Indication
<b>W_DISABLE#</b>	Disable RF Function
<b>PERST#</b>	Reset Function
<b>Antenna</b>	1×RF connector

#### Certificates

<b>Approval</b>	CE/ GCF/ NCC
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\* Under development