

## Product Bulletin

### HSPA+ Models Now Available

**SocketModem® Cell Embedded Cellular Modems**

**QuickCarrier™ USB Embedded USB Cellular Modems**

**MultiConnect™ OCG-E Open Communications Gateways - Embedded**

January 30, 2013

#### I. Summary:

The purpose of this Product Bulletin is to provide additional information on the availability of HSPA+ models for the following Multi-Tech Systems embedded networking products:

- SocketModem® Cell Embedded Cellular Modems
- QuickCarrier™ USB Embedded USB Cellular Modems
- MultiConnect™ OCG-E Open Communications Gateways - Embedded

#### II. Overview:

Multi-Tech Systems announces the availability of our new HSPA+ line of embedded products. The new line of products provide the following key features.

##### Key Features:

- Improved performance
  - Penta-band HSPA+ performance
  - Quad-band GSM/GPRS/EDGE
  - Faster speeds
- Long Life Cycles
  - Partnered with Telit to provide a module that will be stable for a minimum of 5 to 7 years
- PTCRB Certified and carrier approved for quick deployment
- Models with GPS tracking capability
- Two-year warranty

Multi-Tech Systems embedded M2M solutions now leverage Telit's HE910-D penta-band HSPA+ modules to offer faster communication speeds with the newest network technologies, in addition longer product lifecycles with backwards compatibility to legacy 2G networks. The product range includes a variety of connectivity options and features, allowing customers to choose the most cost-effective product for their solution. Telit's HE910 module is part of the xE910 family with all regional and network variants featuring the same form factor, allowing integrators to deploy M2M applications on a global scale and employ a range of network technologies. In 3G mode, the HE910 supports all five existing frequency

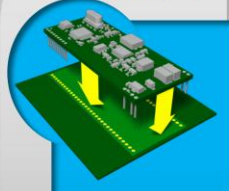
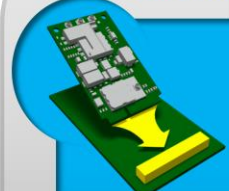
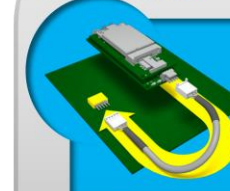

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bands: 850/900/1700/1900/2100 MHz and offers ubiquitous 2G coverage with quad-band GPRS and EDGE Class 33, facilitating worldwide application deployments.

Along with built-in gpsOne® assisted GPS and autonomous GNSS with simultaneous GPS and GLONASS support, Telit's DE910-DUAL an extended operating temperature range of -30°C to +85°C, making it the perfect platform for mobile computing, metering applications, vending or point-of-sale and telematics devices.

### III. Multi-Tech Systems Embedded Product Family:

Universal Socket Footprint	PCI Express Mini Card	4 Pin USB Header	80 Pin B2B Connector
 <ul style="list-style-type: none"> <li>Multiple technologies available in same form factor (GPRS, 1xRTT, HSPA, EV-DO)</li> <li>Pin-out compatible for future migrations</li> <li>AT command interface</li> </ul>	 <ul style="list-style-type: none"> <li>Penta-band HSPA+, EV-DO Rev A</li> <li>AT command compatible</li> <li>Models with GPS, Wi-Fi®/Bluetooth®, digital voice and USB 2.0 HS</li> </ul> <p>Available in 2013</p>	 <ul style="list-style-type: none"> <li>No board spin necessary</li> <li>Multiple technologies available in same form factor (GPRS, HSPA, EV-DO)</li> <li>Easy migration to future technologies</li> <li>Driver supported</li> </ul>	 <ul style="list-style-type: none"> <li>Open source Linux platform</li> <li>400 MHz ARM9™ CPU</li> <li>256 MB NAND flash and 64 MB SDRAM</li> <li>Multiple interfaces available (serial, USB host and device, Ethernet and more)</li> </ul>
SocketModem®	MultiConnect™ PCIe	QuickCarrier™ USB	MultiConnect™ OCG-E

With over 40 years of superior modem design and manufacturing experience, Multi-Tech has become the standard when it comes to delivering quality connectivity solutions for the M2M (machine-to-machine) market. Add communication capability to your existing or new product with Multi-Tech's open communications gateways and pre-approved and ready-to-integrate embedded device networking solutions. Multi-Tech's embedded solutions require minimal engineering effort and allow you to get to market quickly so you can get an edge on the competition.

### IV. SocketModem® Cell:

The SocketModem® Cell embedded cellular modem is a complete, ready-to-integrate communications device that offers 3G HSPA+ performance. These quick-to-market communications devices allow developers to add wireless communication to products with a minimum of development time and expense. The SocketModem Cell cellular modems are based on industry-standard open interfaces and utilize Multi-Tech's Universal Socket design.



#### Additional Features:

- Universal Socket connectivity
- Built in UDP/TCP/FTP/SMTP stack
- Short Message Services (SMS)
- UFL antenna connectors and SIM socket

- Serial or USB 2.0 HS interface
- 3.3 – 5VDC input power
- Drivers for Windows and Linux (USB models)
- AT command compatible

#### **V. QuickCarrier™ USB:**

The QuickCarrier™ USB embedded USB cellular modems are complete, ready-to-integrate communications devices that offer 3G HSPA+ cellular connectivity options. These quick-to-market devices combine a network approved cellular SocketModem® and a USB carrier card in one compact design. With its 4-pin USB interface the QuickCarrier USB embedded cellular modem cables to an existing device's internal USB port and can be secured using the four mounting holes located at the corners of its printed circuit board. Embedding M2M connectivity into your Windows® or Linux device has never been this quick or this easy.



#### **Additional Features:**

- Built in UDP/TCP/FTP/SMTP stack
- Short Message Services (SMS)
- UFL antenna connectors and SIM socket
- Locking 4-pin USB interface
- USB 2.0 HS interface
- Drivers for Windows and Linux
- AT command compatible

#### **VI. MultiConnect™ OCG-E:**

The MultiConnect™ OCG-E embedded open communications gateway with CoreCDP™ is a complete hardware solution and a complete Linux environment in one. Nowhere else will you find an open Linux development environment and a fully certified hardware offering that includes multiple interfaces and internal peripherals in one application-ready customizable solution.



Applications that require device networking capability can now reside directly on select Multi-Tech gateways. By bringing together a cellular hardware development kit and Multi-Tech's CoreCDP, a distribution version of the Linux operating system and complete Linux build environment, you can create custom applications in a very short period of time. The MultiConnect OCG-E provides a flexible, quick and cost-effective way to bring your solution to market.

#### **Hardware**

- 400 MHz ARM9™ CPU
- 256MB NAND flash and 64MB SDRAM
- Carrier approved 2G or 3G cellular connectivity
- Optional dedicated GPS receiver
- 80-pin board-to-board connector
- Multiple interfaces available (serial, USB host and device, Ethernet and more)

**CoreCDP™ Software**

- Custom Linux distribution
- Provides complete Linux build environment
- Cross-compile thousands of open source software packages
- Create custom applications in a short period of time

**Developer Kit**

- Customized development board for use with all models
- Includes all physical interfaces, cables, power supply and antennas necessary to develop your application
- Speeds hardware and software development

**Support**

- Advanced developer support available
- Established developer community available at [www.multitech.net](http://www.multitech.net)

**VII. New Part Numbers:**

***SocketModem Cell***

<b>Ordering Part Number</b>	<b>Description</b>	<b>UPC</b>
MTSMC-H5	Penta-band HSPA+ Serial Embedded Modem (50 pack)	789407354557
MTSMC-H5-SP	Penta-band HSPA+ Serial Embedded Modem (Single pack)	789407354540
MTSMC-H5-U	Penta-band HSPA+ USB Embedded Modem (50 pack)	789407354700
MTSMC-H5-U-SP	Penta-band HSPA+ USB Embedded Modem (Single pack)	789407354724

***QuickCarrier USB***

<b>Ordering Part Number</b>	<b>Description</b>	<b>UPC</b>
MT100UCC-H5	Penta-band HSPA+ Embedded USB Modem (40 pack)	789407354793
MT100UCC-H5-SP	Penta-band HSPA+ Embedded USB Modem (Single pack)	789407354809

**MultiConnect OCG-E**

Ordering Part Number	Description	UPC
MT100EOCG-H5	HSPA+ Embedded Open Communications Gateway - 5V (40 pack)	789407354816
MT100EOCG-H5-SP	HSPA+ Embedded Open Communications Gateway - 5V (Single pack)	789407354823
MT100EOCG-H5-GP	HSPA+ Embedded Open Communications Gateway with GPS - 5V (40 pack)	789407354830
MT100EOCG-H5-GP-SP	HSPA+ Embedded Open Communications Gateway with GPS - 5V (Single pack)	789407354847

**VIII. Pricing and Availability:**

All HSPA+ embedded devices are now available for scheduled shipment. Manufacturer's suggested retail price is listed below. All products include a 2-year manufacturer warranty.

**SocketModem Cell**

Ordering Part Number	Description	MSRP*
MTSMC-H5	Penta-Band HSPA+ Serial Embedded Modem (50 pack)	\$137-\$161
MTSMC-H5-SP	Penta-Band HSPA+ Serial Embedded Modem (Single pack)	\$161
MTSMC-H5-U	Penta-Band HSPA+ USB Embedded Modem (50 pack)	\$137-\$161
MTSMC-H5-U-SP	Penta-Band HSPA+ USB Embedded Modem (Single pack)	\$161

**QuickCarrier USB**

Ordering Part Number	Description	MSRP*
MT100UCC-H5	Penta-Band HSPA+ Embedded USB Modem (40 pack)	\$176-\$207
MT100UCC-H5-SP	Penta-Band HSPA+ Embedded USB Modem (Single pack)	\$207

**MultiConnect OCG-E**

Ordering Part Number	Description	MSRP*
MT100EOCG-H5	HSPA+ Embedded Open Communications Gateway - 5V (40 pack)	\$223-\$263
MT100EOCG-H5-SP	HSPA+ Embedded Open Communications Gateway - 5V (Single pack)	\$263
MT100EOCG-H5-GP	HSPA+ Embedded Open Communications Gateway with GPS - 5V (40 pack)	\$239-\$281
MT100EOCG-H5-GP-SP	HSPA+ Embedded Open Communications Gateway with GPS - 5V (Single pack)	\$281

\* MSRP based upon shipment quantity. Prices may vary.

**IX. Suggested Action Plan:**

- Work with your Multi-Tech Systems representative if your company is interested in placing a purchase order for any HSPA+ embedded products that you require.
- Forward this bulletin to others within your organization who are actively involved in the sale or support of Multi-Tech products.
- Ensure that the pricing for the new devices are loaded in your pricing system.
- Please reference the Product Announcements for these products issued on August 3, 2012 for additional information.

**X. Additional Information:**

If you have any questions or require additional information on this Product Bulletin, please contact your Multi-Tech sales representative:

World Headquarters - USA: (763) 785-3500 or (888) 288-5470 – [sales@multitech.com](mailto:sales@multitech.com)  
 EMEA Headquarters - United Kingdom: +(44) 118 959 7774 – [sales@multitech.co.uk](mailto:sales@multitech.co.uk)

**XI. Cross Reference:**

***QuickCarrier USB***

<b>NEOL Ordering Part Number</b>	<b>UPC</b>	<b>New Ordering Part Number</b>	<b>UPC</b>
MT100UCC-H4-P1	789407353727	MT100UCC-H5	789407354793
MT100UCC-H4-P1-SP	789407353710	MT100UCC-H5-SP	789407354809
MT100UCC-H4-P2	789407353246	MT100UCC-H5	789407354793
MT100UCC-H4-P2-SP	789407353352	MT100UCC-H5-SP	789407354809

***MultiConnect OCG-E***

<b>NEOL Ordering Part Number</b>	<b>UPC</b>	<b>New Ordering Part Number</b>	<b>UPC</b>
MT100EOCG-H4-P1	789407353543	MT100EOCG-H5	789407354816
MT100EOCG-H4-P1-SP	789407353536	MT100EOCG-H5-SP	789407354823
MT100EOCG-H4-GP-P1	789407353529	MT100EOCG-H5-GP	789407354830
MT100EOCG-H4-GP-P1-SP	789407353512	MT100EOCG-H5-GP-SP	789407354847
MT100EOCG-H4-P2	789407353505	MT100EOCG-H5	789407354816
MT100EOCG-H4-P2-SP	789407353499	MT100EOCG-H5-SP	789407354823
MT100EOCG-H4-GP-P2	789407353482	MT100EOCG-H5-GP	789407354830
MT100EOCG-H4-GP-P2-SP	789407353475	MT100EOCG-H5-GP-SP	789407354847