

Cellular Products

Accessories Ordering Guide

Release 1.5 December 29, 2014

Revision History

| Release | Date | Change details |
|---------|-----------|---|
| 1.5 | 12/292014 | Updated MTC-C2 antenna options Added MTR-EV3, MTC-EV3 and MTCDP-EV3 models Removed serial cable CA15-9-DV (discontinued) |
| 1.4 | 4/23/2014 | Added replacement power blades for power supplies |
| 1.3 | 3/4/2014 | Added MTPCIE, MTR-H5, MTC-H5 and MTCMR-EV3 products Updated several antenna options |
| 1.2 | 9/16/2013 | Added new USB cable for MultiConnect® Cell 100 series products (MTC-xx) Added MTR-C2, MTC-C2 and MTCMR-C2 products (New products) |
| 1.1 | 8/22/2013 | Added DIN Rail Mounting Accessory Kits |
| 1.0 | 7/10/2013 | Initial release |

Table of Contents

| Power Supplies for Cellular Products | 5 |
|--|-----|
| AC Adaptor Power Supplies | 6 |
| Replacement Power Blades for AC adaptors | 7 |
| IEC-320 Style Power Supplies | 8 |
| Optional AC Adaptor Power Supply (US only) | 9 |
| Power Supplies for MTCBA-H3-EN3 Products | 10 |
| DC Power Cables | 11 |
| Power Supplies for Cellular Development Kits | 12 |
| Antennas for Cellular Products | 13 |
| Cellular Antennas | 14 |
| GPS Antennas | |
| Combined Cellular and GPS Antennas | |
| Wi-Fi/Bluetooth Antennas | |
| Interface Cables | 22 |
| Serial Cables | |
| <u>USB Cables</u> | |
| <u>USB Cables for QuickCarrier™ USB-E</u> | 23 |
| Ethernet Cables | |
| GPIO Cables | |
| MultiConnect® OCG Break out Board | 25 |
| RF Cables for Embedded Cellular Products | |
| SMA-to-MMCX | |
| Reverse SMA-to-MMCX | |
| SMA-to-UFL | |
| Reverse SMA-to-UFL | |
| Mounting Brackets | |
| MultiConnect® rCell 100 Series Cellular Routers | |
| MultiModem® GPRS and CDMA Cellular Modems | |
| DIN Rail Mounting Kits | |
| | |
| MultiModem® Cell, iCell, rCell and MultiConnect® OCG | |
| MultiModem® Cell, iCell, rCell and MultiConnect® OCG Right Angle | |
| MultiConnect® rCell 100 Series Cellular Routers | 34 |
| Table 1 | |
| MultiTech® GSM Product Frequencies | ~ - |
| Monreett Oswittodoct trequencies | 35 |
| Table 2 | 35 |

Introduction

The purpose of this document is to provide the reader guidance when ordering accessories for MultiTech® cellular products. This document will not provide any guidance on the selection of the cellular product to order. Please contact your sales representative for guidance in selecting the appropriate cellular product for your application.

When ordering cellular products, you will have the option to order an un-bundled cellular product (no power supply, antennas, interface cables etc...) or a bundled version that includes the cellular product, power supply, antennas and interface cables in the packaging. If you order a bundled product, you likely will not need to order any of the accessories contained in this ordering guide unless you need a replacement item. If you order an un-bundled version of the product, utilize this ordering guide to assist you in selecting the various accessories you will need to operate the device.

Throughout this document, you will see a reference to certain models of products. For example, an "H5" or "MTR" model. If your device has an "H5" or "MTR" as part of its ordering part number, then the comment is applicable to your device.

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http://www.multitech.com/cpag.go

Note: The descriptions used in this document are descriptive in nature and might not match the descriptions located on the price list, web site or order documentation. Please reference those documents for the appropriate description.

Power Supplies for Cellular Products

MultiTech cellular products operate on DC voltages. You can elect to power the cellular product with the following options:

- An AC adaptor that provides DC power to the cellular product
- Your own source of DC voltage

For the majority of products, the DC connection is made with a screw-on locking barrel connector.

Options for powering cellular devices with an AC adaptor

For use with all models of cellular devices and the MTOCG-BOB-DK with the exception of MTCBA-H3-EN3 models.

Note: MultiModem® Cell products with a –U designation (e.g. MTCBA-H5-U) and MultiConnect® Cell USB versions (e.g. MTC-H5-B03-KIT) operate on USB bus power and do not require a separate power supply.

Note: The description below contains the ISO country code for the type of AC power plug that is included with the power supply. For example, CN includes a Chinese power plug. These power supplies are rated for a maximum of 1.7 amps output.

| Order PN | Description | Picture |
|---------------------|---|---------|
| PS-9VCB-LBC-U-NAM | 100-240VAC/9VDC US Power Supply w/Locking Barrel | |
| PS-9VCB-LBC-U-EU | 100-240VAC/9VDC EU Power Supply w/Locking Barrel | |
| PS-9VCB-LBC-U-GB/IE | 100-240VAC/9VDC UK Power Supply w/Locking Barrel | |
| PS-9VCB-LBC-U-AU/NZ | 100-240VAC/9VDC AU Power Supply w/Locking Barrel | |
| PS-9VCB-LBC-U-CN | 100-240VAC/9VDC CN Power Supply w/Locking Barrel | |

Replacement Power Blades for AC adaptors

For use with power supply models starting with ordering part number PS-9VCB-LBC-U-xx listed above or the PS-9VCB-SBC-U-xx listed below.

| Order PN | Description | Picture |
|----------|--------------------------------------|---------|
| PB-NAM | US style locking power blade | |
| PB-EU | European style locking power blade | |
| PB-GB | UK style locking power blade | |
| PB-AU | Australian style locking power blade | |
| PB-CN | Chinese style locking power blade | |

Options for powering cellular devices with an IEC-320 style AC adaptor

For use with all models of cellular devices and the MTOCG-BOB-DK with the exception of MTCBA-H3-EN3 models.

Note: MultiModem® Cell products with a –U designation (e.g. MTCBA-H5-U) and MultiConnect® Cell USB versions (e.g. MTC-H5-B03-KIT) operate on USB bus power and do not require a separate power supply.

Note: This option requires you to order the power supply and a separate IEC-320 power cord with the proper power plug for the region of operation. In installations that utilize an IEC-320 Uninterruptable Power Supply (UPS), the power cord might not be required. These power supplies are rated for a maximum of 1.0 amp output.

| Step 1 | l: | Order | the | power | supp | ly |
|--------|----|-------|-----|-------|------|----|
|--------|----|-------|-----|-------|------|----|

| Order PN | Description | Picture |
|-------------------------|--|---------|
| PS-9V1A-LBC-U | 100-240VAC/9VDC IEC-320 Power Supply w/o Cord w/Locking Barrel | |
| Step 2: Order the appro | priate IEC-320 power cord for your region of operation | |
| Order PN | Description | Picture |
| PC-IEC320-NAM | IEC-320 Power Cord w/US plug | |
| PC-IEC320-EURO | IEC-320 Power Cord w/EU plug | Se |
| PC-IEC320-GB | IEC-320 Power Cord w/UK plug | |
| PC-IEC320-AU | IEC-320 Power Cord w/Australian plug | of. |
| PC-IEC320-CN | IEC-320 Power Cord w/Chinese plug | |
| PC-IEC320-IN | IEC-320 Power Cord w/Indian plug | R |
| PC-IEC320-JP | IEC-320 Power Cord w/Japanese plug | |

Option for powering the following cellular devices with an AC adaptor with US power plug

For use with the following discontinued products (All varieties):

| MultiModem® Cell |
|------------------|
| MTCBA-C |
| MTCBA-E |
| MTCBA-G-F4 |

Note: The products referenced above only require 4.5 watts or less of power to operate. This model of power supply is only available with a US style power plug. This power supply will not work with any other cellular products other than the models listed above. This power supply is rated for a maximum of 0.5 amps (500 mA) output at 9 VDC.

| Order PN | Description | Picture |
|----------------|--|---------|
| PS-9V500MA-LBC | 110-120VAC/9VDC US Power Supply (4.5 watt) w/Locking Barrel | |

Options for powering all versions of MTCBA-H3-EN3 cellular devices

Note: This model operates on 5 volts DC. These power supplies are rated for a maximum of 2.6 amps output. (MTCBA-H3-EN3 products are discontinued)

MTCBA-H3-EN3



| Order PN | Description | Picture |
|---------------------|---|---------|
| PS-5VCB-LBC-U-NAM | 100-240VAC/5VDC US Power Supply w/Locking Barrel | |
| PS-5VCB-LBC-U-EU | 100-240VAC/5VDC EU Power Supply w/Locking Barrel | |
| PS-5VCB-LBC-U-GB/IE | 100-240VAC/5VDC UK Power Supply w/Locking Barrel | |

Options for powering the cellular device with your own source of DC voltage

| Order PN | Description | Picture |
|------------|---------------------------------------|---------|
| FPC-532-DC | DC Power Cable (w/Inline Fuse) (5 ft) | |
| PC-932-DC | DC Power Cable (w/o Fuse) (5 ft) | |

Notes:

MultiConnect rCell 100 series (MTR-xx models) and MultiConnect Cell (MTC-xx models) products that utilize the FPC-532-DC power cable for general use must be connected to a UL listed LPS or Class 2 power supply. These products are UL 201 certified for in-vehicular use and must use the FPC-532-DC power cable for these installations.

Safety certification (Example: UL60950-1) of any device has not been evaluated with the PC-932-DC DC power cable or the power source it is connected to. The DC power cable and power source do not apply or extend to the device's safety certification unless noted otherwise in the device documentation. It is recommended that the optional DC power cable, power source and device be evaluated by an accredited safety agency such as UL or equivalent.

Options for powering cellular development kits

For use with the following products:

| Universal Socket | MultiConnect® OCG-E | |
|------------------|---------------------|--|
| Developer Kit | Developer Kit | |
| MTSMI-UDK | MT100EOCG-DK | |

Note: The description below contains the ISO country code for the type of AC power plug that is included with the power supply. For example, CN includes a Chinese power plug. These power supplies are rated for a maximum of 1.7 amps output.

| Order PN | Description | Picture |
|---------------------|---|---------|
| PS-9VCB-SBC-U-NAM | 100-240VAC/9VDC US Power Supply w/Push-on Barrel | |
| PS-9VCB-SBC-U-EU | 100-240VAC/9VDC EU Power Supply w/Push-on Barrel | |
| PS-9VCB-SBC-U-GB/IE | 100-240VAC/9VDC UK Power Supply w/Push-on Barrel | |
| PS-9VCB-SBC-U-AU/NZ | 100-240VAC/9VDC AU Power Supply w/Push-on Barrel | |
| PS-9VCB-SBC-U-CN | 100-240VAC/9VDC CN Power Supply w/Push-on Barrel | |

Antennas for Cellular Products

You must order the correct antenna that supports the frequency bands that your cellular product operates in. Note that certain models of MultiTech products support a feature called diversity. If you want to take advantage of the diversity feature, you will require two cellular antennas per device.

To determine the frequency bands that your product uses, please consult Table 1 at the end of this document.

If you would like to order an antenna that combines the cellular and GPS antennas into a single magnetic mount antenna, skip to the section on combined cellular and GPS antennas.

Frequency Bands: 850/900/1800/1900 MHz

| MultiConnect® rCell | MultiConnect® Cell | MultiConnect® OCG-D | MultiConnect® AW |
|---------------------|--------------------|---------------------|------------------|
| MTR-C2 | MTC-C2-xx-N2 | MTCDP-E1 | MT100A2W-G |
| MTR-EV3 | MTC-C2-xx-N16 | MTCDP-EV2 | MT200A2W-C1 |
| | MTC-EV3 | MTCDP-EV3 | MT200A2W-G |
| | | MTCDP-G2 | |
| | | MTCDP-H4 | |

| MultiModem® rCell | MultiModem® iCell | MultiModem® Cell | MultiModem® iSMS |
|-------------------|-------------------|------------------|------------------|
| MTCBA-C1-EN2 | MTCMR-C1 | MTCBA-C1 | SF100-G |
| MTCBA-G2-EN2 | MTCMR-E1 | MTCBA-C1X | SF400-G |
| MTCBA-H4-EN2 | MTCMR-EV2 | MTCBA-E1 | SF800-G |
| MTCBA-E1-EN2 | MTCMR-G2 | MTCBA-G2 | |
| MTCBA-EV2-EN2 | MTCMR-G-F4 | MTCBA-G-F4 | |
| MTCBA-H3-EN3 | MTCMR-H4 | MTCBA-H3 | |
| | MTCMR-C2 | | |
| | MTCMR-EV3 | | |

| SocketModem® Cell | SocketModem® iCell | Quick Carrier™ USB-E | MultiConnect® OCG-E |
|-------------------|--------------------|----------------------|---------------------|
| MTSMC-C1 | MTSMC-C1-IP/GP | MT100UCC-C2 | MT100EOCG-EV2 |
| MTSMC-C2 | MTSMC-C2-IP/GP | MT100UCC-EV2 | MT100EOCG-EV3 |
| MTSMC-E1 | MTSMC-EV2-IP/GP | MT100UCC-EV3 | MT100EOCG-G2 |
| MTSMC-EV3 | MTSMC-EV3-IP/GP | MT100UCC-G2 | MT100EOCG-H4 |
| MTSMC-G2 | MTSMC-G2-IP/GP | MT100UCC-H3 | |
| MTSMC-G-F4 | MTSMC-G-F4-IP | MT100UCC-H4 | |
| MTSMC-H3-U | MTSMC-H3-IP | | |
| | MTSMC-H4-IP/GP | | |

| MultiConnect® PCIE | |
|--------------------|--|
| MTPCIE-EV3 | |
| MTPCIE-C2 | |

| Order PN | Description | Picture |
|------------|--|-----------|
| ANQB-1HRA | 850/900/1800/1900 MHz Antenna, 7" (2 dBi)(1 Pk) | |
| anqb-10hra | 850/900/1800/1900 MHz Antenna, 7" (2 dBi)(10 Pk) | See above |
| anqb-50hra | 850/900/1800/1900 MHz Antenna, 7" (2 dBi)(50 Pk) | See above |

Frequency Bands: 850/900/1700/1800/1900/2100 MHz

| MultiModem® rCell | MultiModem® iCell | MultiModem® Cell |
|-------------------|-------------------|------------------|
| MTCBA-C1-EN2 | MTCMR-C1 | MTCBA -C1 |
| MTCBA -E1-EN2 | MTCMR -E1 | MTCBA -C1X |
| MTCBA -EV2-EN2 | MTCMR -EV2 | MTCBA -E1 |
| MTCBA -G2-EN2 | MTCMR -G2 | MTCBA -G2 |
| MTCBA -H4-EN2-P1 | MTCMR -H4-P1 | |
| MTCBA -H4-EN2-P2 | MTCMR -H4-P2 | |

| Order PN | Description | Picture |
|------------|--|-----------|
| ANPB-1HRA | 850/900/1700/1800/1900/2100 MHz Antenna, 3" (2 dBi)(1 Pk) | |
| ANPB-10HRA | 850/900/1700/1800/1900/2100 MHz Antenna, 3" (2 dBi)(10 Pk) | See above |
| ANPB-50HRA | 850/900/1700/1800/1900/2100 MHz Antenna, 3" (2 dBi)(50 Pk) | See above |

Frequency Bands: 850/900/1700/1800/1900/2100 MHz

| MultiConnect® rCell | MultiConnect® Cell |
|---------------------|--------------------|
| MTR-G3 | MTC-G3 |
| MTR-H6 | MTC-C2-xx-N3 |

| Order PN | Description | Picture |
|-------------|--|-----------|
| ANPB2-1HRA | 850/900/1800/1900/2100 MHz Antenna, 4" (5 dBi)(1 Pk) | |
| ANPB2-10HRA | 850/900/1800/1900/2100 MHz Antenna, 4" (5 dBi)(1 Pk) | See above |
| ANPB2-50HRA | 850/900/1800/1900/2100 MHz Antenna, 4" (5 dBi)(1 Pk) | See above |

Frequency Bands: 850/900/1700/1800/1900/2100 MHz

| MultiModem® rCell | MultiModem® iCell | MultiModem® Cell |
|-------------------|-------------------|------------------|
| MTCBA-H5-EN2 | MTCMR-H5 | MTCBA-H5 |

| MultiConnect® rCell | MultiConnect® Cell |
|---------------------|--------------------|
| MTR-H5 | MTC-H5 |

| MultiConnect® OCG-D | MultiConnect® AW |
|---------------------|------------------|
| MTCDP-H5 | MT200A2W-H5 |

| SocketModem® | Cell So | cketModem® iCell | MultiConnect® OCG-E |
|--------------|---------|------------------|---------------------|
| MTSMC-H5 | MT | SMC-H5-IP | MT100EOCG-H5 |

| MultiConnect® PCIe | Quick Carrier™ USB-E | |
|--------------------|----------------------|--|
| MTPCIE-H5 | MT100UCC-H5 | |
| MTPCIE-H5-V-BW | | |

| Order PN | Description | Picture |
|------------|--|-----------|
| ANHB-1HRA | 850/900/1700/1800/1900/2100 MHz Antenna, 7" (3 dBi)(1 Pk) | |
| ANHB-10HRA | 850/900/1700/1800/1900/2100 MHz Antenna, 7" (3 dBi)(10 Pk) | See above |
| ANHB-50HRA | 850/900/1700/1800/1900/2100 MHz Antenna, 7" (3 dBi)(50 Pk) | See above |

Frequency Bands: 900/1800 MHz (Typically used in Europe)

For use with the following products (All varieties):

| MultiModem® Cell | SocketModem® Cell | SocketModem® iCell | MMCModem™ |
|------------------|-------------------|--------------------|------------|
| MTCBA-G-F1 | MTSMC-G-F1 | MTSMC-G-F1-IP | MTMMC-G-F1 |

| Order PN | Description | Picture |
|-------------|--|-----------|
| ANF1-1HRA | 900/1800 MHz Antenna, 4" (0 dBi) (1 Pk) | 4 |
| ANF1-10HRA | 900/1800 MHz Antenna, 4" (0 dBi) (10 Pk) | See above |
| ANF1-50HRA | 900/1800 MHz Antenna, 4" (0 dBi) (50 Pk) | See above |
| ANF1-1MMQW | 900/1800 MHz 1/4 Wave Antenna, Mag Mount, 4" (3 dBi)(1 Pk) | |
| ANF1-10MMQW | 900/1800 MHz 1/4 Wave Antenna, Mag Mount, 4" (3 dBi)(10 Pk) | See above |
| ANF1-50MMQW | 900/1800 MHz 1/4 Wave Antenna, Mag Mount, 4" (3 dBi)(50 Pk) | See above |
| ANF1-1MMHW | 900/1800 MHz 1/2 Wave Antenna, Mag Mount, 12" (3 dBi)(1 Pk) | |
| ANF1-10MMHW | 900/1800 MHz 1/2 Wave Antenna, Mag Mount, 12" (3 dBi)(10 Pk) | See above |
| ANF1-50MMHW | 900/1800 MHz 1/2 Wave Antenna, Mag Mount, 12" (3 dBi)(50 Pk) | See above |

Frequency Bands: 850/1900 MHz (Typically used in North America)

| MultiModem® Cell | SocketModem® Cell | SocketModem® iCell | MMCModem™ |
|------------------|-------------------|--------------------|------------|
| MTCBA-C | MTSMC-C | MTSMC-C-IP | MTMMC-C |
| MTCBA-G-F2 | MTSMC-G-F2 | MTSMC-G-F2-IP | MTMMC-G-F2 |

| Order PN | Description | Picture |
|--------------|--|-----------|
| ANCF2-1HRA | 850/1900 MHz Antenna, 4" (0 dBi) (1 Pk) | / |
| ANCF2-10HRA | 850/1900 MHz Antenna, 4" (0 dBi) (10 Pk) | See above |
| ANCF2-50HRA | 850/1900 MHz Antenna, 4" (0 dBi) (50 Pk) | See above |
| ANCF2-1MMQW | 850/1900 MHz 1/4 Wave Antenna, Mag Mount, 4" (3 dBi)(1 Pk) | |
| ANCF2-10MMQW | 850/1900 MHz 1/4 Wave Antenna, Mag Mount, 4" (3 dBi)(10 Pk) | See above |
| ANCF2-50MMQW | 850/1900 MHz 1/4 Wave Antenna, Mag Mount, 4" (3 dBi) (50 Pk) | See above |
| ANCF2-1MMHW | 850/1900 MHz 1/2 Wave Antenna, Mag Mount, 12" (3 dBi)(1 Pk) | |
| ANCF2-10MMHW | 850/1900 MHz 1/2 Wave Antenna, Mag Mount, 12" (3 dBi)(10 Pk) | See above |
| ANCF2-50MMHW | 850/1900 MHz 1/2 Wave Antenna, Mag Mount, 12" (3 dBi)(50 Pk) | See above |

GPS antennas for cellular products

Note: If you would like to order an antenna that combines the cellular and GPS antennas into a single magnetic mount antenna, skip to the section on combined cellular and GPS antennas.

| Order PN | Description | Picture |
|------------|---|-----------|
| ANGPS-1MM | GPS Antenna, Mag Mount, 5 Meter Cable (1 Pk) | |
| ANGPS-10MM | GPS Antenna, Mag Mount, 5 Meter Cable (10 Pk) | See above |
| ANGPS-50MM | GPS Antenna, Mag Mount, 5 Meter Cable (50 Pk) | See above |

Combined cellular and GPS antennas Frequency Bands: 850/900/1700/1800/1900/2100 MHz (cellular)

For use with all products

| Order PN | Description | Picture |
|----------------|---|-----------|
| angsm-gps-1mm | GSM/GPS Antenna,Mag Mount, 5 Meter Cable (1 dBi)(1 Pk) | |
| angsm-gps-10mm | GSM/GPS Antenna,Mag Mount, 5 Meter Cable (1 dBi)(10 Pk) | See above |
| ANGSM-GPS-50MM | GSM/GPS Antenna,Mag Mount, 5 Meter Cable (1 dBi)(50 Pk) | See above |

Wi-Fi/Bluetooth Antennas

Note: MultiTech Wi-Fi and Bluetooth products support operation of these technologies in the 2.4 GHz band.

For use with the following products (All varieties):

| SocketWireless® Bluetooth® | SocketWireless® Wi-Fi® |
|----------------------------|------------------------|
| MTS2BTSMI | MT810SWM-IP |

| Order PN | Description | Picture |
|------------|---|-----------|
| ANBT-1HRA | 2.4 GHz Wi-Fi/Bluetooth Antenna, 4" (2 dBi)(1 Pk) | \ |
| ANBT-10HRA | 2.4 GHz Wi-Fi/Bluetooth Antenna, 4" (2 dBi)(10 Pk) | See above |
| ANBT-50HRA | 2.4 GHz Wi-Fi/Bluetooth Antenna, 4" (2 dBi) (50 Pk) | See above |

| MultiConnect® rCell 100 Series | MultiConnect® OCG-D | MultiConnect® PCle |
|-----------------------------------|---------------------|--------------------|
| MTR-xx | MTOCGD3-xx | MTPCIE-H5-V-BW |
| | | MTPCIE-BW |

| Order PN | Description | Picture |
|------------|--|-----------|
| ANWF-1HRA | 2.4 GHz Wi-Fi/Bluetooth Antenna, 3" (1.8 dBi)(1 Pk) | |
| ANWF-10HRA | 2.4 GHz Wi-Fi/Bluetooth Antenna, 3" (1.8 dBi)(10 Pk) | See above |
| ANWF-50HRA | 2.4 GHz Wi-Fi/Bluetooth Antenna, 3" (1.8 dBi)(50 Pk) | See above |

| Serial Cables | | | |
|---------------|--|---------|--|
| Order PN | Description | Picture | |
| CA9-9-D | DE9M-DE9F Serial Cable (6 ft) | | |
| CA15-9-D | DE15M-DE9F Serial Cable, Data Only (6 ft) | | |
| CA15-9-ADP | DE15M-DE9F Adapter | | |
| CA-CDP-DEBUG | 3-pin Serial Debug Cable (MTCDP, MTOCG and Developer Boards) | 304- | |

| USB Cables | | | |
|-------------------|---|--|--|
| Order PN | Order PN Description | | |
| CA-USB | USB Cable Type A to Type B (4 ft) | | |
| CA-USB-A-MINI-B | USB Cable Type A to Type B Mini (4 ft) | | |
| CA-USB-A-MINI-B-3 | USB Cable Type A to Type B Mini (24 AWG, 3 ft) (Compatible with MultiConnect Cell (MTC-xx)) | | |

| USB Data Cables for the QuickCarrier™ USB-E Note: For use with all varieties of QuickCarrier™ USB-E (MT100UCC) products. | | | |
|---|---|-----------|--|
| Order PN | Description | Picture | |
| MT100UCC-AK | MT100UCC Kit 2 USB Cables, Antenna & 8.5" SMA-UFL Coax Cable | N/A | |
| CA-UCC-USB-5P-4P | MT100UCC USB Cable, Mother Board 5 Pin-MT100UCC 4 Pin (10") See Below | | |
| | | | |
| CA-UCC-USB-TP A-4P | MT100UCC USB Cable, USB Type A-MT100UCC 4 Pin (10") | See Below | |
| | | | |

| Ethernet Cables | | | |
|------------------------------|------------------------------|--|--|
| Order PN Description Picture | | | |
| CA-RJ-45 | Ethernet Cable (RJ-45, 6 ft) | | |

| GPIO Cables | | | |
|-------------|---|---------|--|
| Order PN | Description | Picture | |
| CA-CMR-GPIO | 6-Pin GPIO Cable for MTCMR iCell Intelligent Modems (5 ft) | | |
| CA-CDP-GPIO | 36-Pin GPIO Cable for MTCDP Series Programmable Gateway(12") | | |

MultiConnect® OCG Break out Board

The MultiConnect OCG Break-out Board is designed to be used with MultiTech's MTCDP and MT100EOCG series of Programmable Gateways. It provides a quick and easy way to simulate your application environment, exercise common analog and digital inputs, and quickly complete general purpose connections using the GPIO cable and quick-connects.

Features

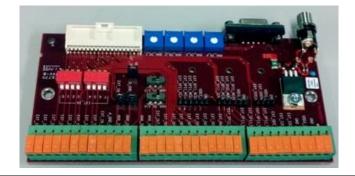
- GPIO cable and GPIO connectors simplify testing needs
- Four analog potentiometers simulate sensor inputs
- Eight physical switches simulate digital signal inputs
- Jumpers enable additional power and ground options
- Package also includes power supply, US, UK and EU power plugs and GPIO cable

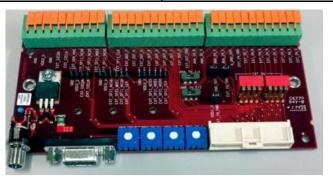
For use with the following models:

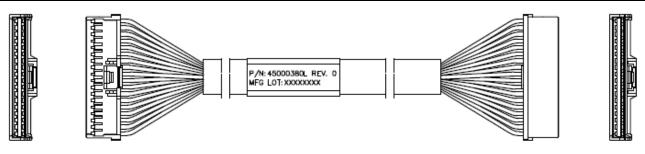
MTCDP-xx (All varieties)

MT100EOCG-xx (All varieties)

| Order PN | Description | Picture |
|--------------|--|-----------|
| MTOCG-BOB-DK | Programmable Gateway Break-Out Board (use with MTCDP and EOCG) | See below |





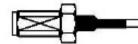


RF Cables for embedded cellular products

MultiTech embedded cellular products contain surface mount RF connectors on the PCB that are used to interface with an RF cable and antenna. The RF cables listed below include an appropriate connector that interfaces with the surface mount connector on one end and a bulk head panel mount SMA connector on the other. For the cellular connection, a standard SMA connector is specified. For Wi-Fi and/or Bluetooth connections, a reverse polarity SMA (RSMA) connector is specified.

SMA-to-MMCX Antenna Cables

Note: Used for the cellular connection with embedded models that utilize an MMCX connector on the PCB.





| SocketModem® EDGE |
|-------------------|
| MTSMC-E |
| MTSMC-E1 |

| Order PN | Description | Picture |
|---------------|--|-----------|
| CASMA-MMCX-1 | SMA-to-MMCX Coax RF Cable, 6" (1 Pk) | See Above |
| CASMA-MMCX-10 | SMA-to-MMCX Coax RF Cable, 6", (10 Pk) | See Above |
| CASMA-MMCX-50 | SMA-to-MMCX Coax RF Cable, 6", (50 Pk) | See Above |

Reverse SMA-to-MMCX Antenna Cables

Note: Used for the Wi-Fi/Bluetooth connection with embedded models that utilize an MMCX connector on the PCB.



For use with the following products (All varieties):

SocketWireless® Bluetooth®

MTS2BTSMI

| Order PN | Description | Picture |
|----------------|---|-----------|
| CARSMA-MMCX-1F | Reverse SMA-to-MMCX Coax RF Cable, 6" (1 Pk) | See Above |
| CARSMA-MMCX-10 | Reverse SMA-to-MMCX Coax RF Cable, 6" (10 Pk) | See Above |
| CARSMA-MMCX-50 | Reverse SMA-to-MMCX Coax RF Cable, 6" (50 Pk) | See Above |

SMA-to-UFL Antenna Cables

Note: Used for the cellular connection with embedded models that utilize an UFL connector on the PCB.



| SocketModem® Cell | SocketModem® iCell | QuickCarrier™ USB-E | MultiConnect® OCG-E | MultiConnect® PCIe |
|----------------------|-----------------------|------------------------|------------------------|-----------------------|
| MTSMC-C1 | MTSMC-C1-IP/GP | MT100UCC-C2 | MT100EOCG-EV2 | MTPCIE-H5 |
| MTSMC-C2 | MTSMC-C2-IP/GP | MT100UCC-EV2 | MT100EOCG-EV3 | MTPCIE-H5-V-BW |
| MTSMC-EV3 | MTSMC-EV2-IP/GP | MT100UCC-EV3 | MT100EOCG-G2 | MTPCIE-EV3 |
| MTSMC-G2 | MTSMC-EV3-IP/GP | MT100UCC-G2 | MT100EOCG-H4 | MTPCIE-C2 |
| MTSMC-H3-U | MTSMC-G2-IP/GP | MT100UCC-H3 | MT100EOCG-H5 | |
| MTSMC-H4 | MTSMC-H3-IP | MT100UCC-H4 | | |
| MTSMC-H5 | MTSMC-H4-IP/GP | MT100UCC-H5 | | |
| | MTSMC-H5-IP/GP | | | |

| Order PN | Description | Picture |
|--------------|--------------------------------------|-----------|
| CASMA-UFL-1 | SMA-to-UFL Coax RF Cable, 8" (1 Pk) | See Above |
| CASMA-UFL-10 | SMA-to-UFL Coax RF Cable, 8" (10 Pk) | See Above |
| CASMA-UFL-50 | SMA-to-UFL Coax RF Cable, 8" (50 Pk) | See Above |

Reverse SMA-to-UFL Antenna Cables

Note: Used for the Wi-Fi/Bluetooth connection with embedded models that utilize an UFL connector on the PCB.



| SocketWireless® Wi-Fi® | MultiConnect® PCle | SocketWireless® Bluetooth® | |
|------------------------|--------------------|----------------------------|--|
| MT810SWM-IP | MTPCIE-H5 | MTS2BTSMI | |
| | MTPCIE-H5-V-BW | | |

| Order PN | Description | Picture |
|---------------|--|-----------|
| CARSMA-UFL-1F | Reverse SMA-to-UFL Coax RF Cable, 6" (1 Pk) | See Above |
| CARSMA-UFL-10 | Reverse SMA-to-UFL Coax RF Cable, 6" (10 Pk) | See Above |
| CARSMA-UFL-50 | Reverse SMA-to-UFL Coax RF Cable, 6" (50 Pk) | See Above |

Mounting bracket for MultiConnect® rCell 100 Series cellular routers



Note: All Models supported (MTR-xx)

| Order PN | Description | Picture |
|----------|---|---------|
| WMB-MTR | MultiConnect rCell 100 Series Mounting Bracket (MTR-xx) | |

Mounting bracket for MultiModem® GPRS and CDMA and MultiConnect® Cell 100 Series Cellular Modems





| MultiModem® GPRS MultiModem® CDMA | MultiConnect® Cell |
|--------------------------------------|--------------------|
| MTCBA-C1X | MTC-xx |
| MTCBA-G-F1 | |
| MTCBA-G-F2 | |
| MTCBA-G-F4 | |

| Order PN | Description | Picture |
|----------|--|---------|
| WMB-CBA | MultiModem GPRS & CDMA Mounting Bracket (MTCBA-G-FX & C1X) | |

Note: An additional hole has been added to the mounting flange to support DIN rail mounting. MTCBA-xx products will begin shipping with the additional hold at the beginning of 2Q 2014.

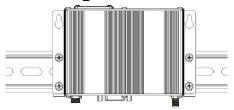
DIN Rail Mounting Kits for MultiModem® Cell, iCell and rCell MultiConnect® OCG-D Programmable Gateways



For use with the following products (All varieties):

| MultiModem® rCell | MultiModem® iCell | MultiModem® Cell | MultiConnect® OCG-D |
|-------------------|-------------------|------------------|---------------------|
| MTCBA-xx-EN2 | MTCMR-xx | MTCBA-xx | MTCDP-xx |

Option 1: Standard Flange Mounting



Notes: 1) Package contents include DIN Rail clips and associated hardware for mounting devices in the orientation shown above. 2) Clips onto 35mm and 32mm DIN rails

| Order PN | Description | Picture |
|-------------------|---|-----------|
| DIN-FLANGE-10PACK | DIN Rail Mounting Kit, Flange Mount (10 Pk) | (20) (40) |

Note: An additional hole has been added to the mounting flange to support DIN rail mounting. MTCBA-xx products will begin shipping with the additional hold at the beginning of 2Q 2014.

Right Angle DIN Rail Mounting Kits for MultiModem® Cell, iCell and rCell MultiConnect® OCG-D Programmable Gateways



For use with the following products (All varieties):

| MultiModem® rCell | MultiModem® iCell | MultiModem® Cell | MultiConnect® OCG-D |
|-------------------|-------------------|------------------|---------------------|
| MTCBA-xx-EN2 | MTCMR-xx | MTCBA-xx | MTCDP-xx |

Option 2: Right Angle Flange Mounting



Notes: 1) Package contents include DIN Rail clips and associated hardware for mounting devices in the orientation shown above. 2) Clips onto 35mm and 32mm DIN rails

| Order PN | Description | Picture |
|----------------------|--|---------------------|
| DIN-FLANGE-RA-10PACK | DIN Rail Mounting Kit, Flange Mount, Right Angle (10 Pk) | (10) (20) (20) (10) |

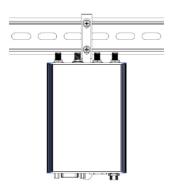
Note: DIN rail support is available now on all MultiConnect® rCell 100 and Cell 100 series products.

DIN Rail Mounting Kits for MultiConnect® rCell 100 Series Cellular Routers MultiConnect® Cell 100 Series Cellular Modems





Note: All Models supported (MTR-xx and MTC-xx)



Notes: 1) Package contents include DIN Rail clips and associated hardware for mounting devices in the orientation shown above. 2) Clips onto 35mm and 32mm DIN rails.

| Order PN | Description | Picture |
|--------------------|---|-----------|
| DIN-MTR-MTC-10PACK | DIN Rail Mounting Kit (MTR & MTC) (10 Pk) | (10) (20) |

Table 1

| MultiTech GSM Product Frequency Bands | | | | | | | | | | | | |
|---------------------------------------|----------------------------|------------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------|-------------|----------------------------|----|
| | | | | | | GSM | | | | | | |
| | | HS | PA | | ED | GE | | | GPRS | | | |
| | H6 | H5 | H4 | Н3 | E1 | E | G3 | G2 | G-F1 | G-F2 | G-F4 | |
| 3G | 850 900 2100 | 850 900 1700 1900 2100 | 850 1900 2100 | 850 900 1900 2100 | | | | | | | | 3G |
| 2G | 850 900 1800 1900 | 850 900 1800 1900 | 850 900 1800 1900 | 850 900 1800 1900 | 850 900 1800 1900 | 850 900 1800 1900 | 850 900 1800 1900 | 850 900 1800 1900 | 900 1800 | 850 1900 | 850 900 1800 1900 | 2G |

Table 2

| M | MultiTech CDMA Product Frequency Bands | | | | | | | | |
|----|--|-------------|-------------|-------------|-------------|-------------|----|--|--|
| | | | CD | MA | | | | | |
| | | EVDO | | | 1xRTT | | | | |
| | EV3 | EV2 | EV1 | C2 | C1 | С | | | |
| 3G | 800 1900 | 800 1900 | 800 1900 | | | | 3G | | |
| 2G | 800 1900 | 800 1900 | 800 1900 | 800 1900 | 800 1900 | 800 1900 | 2G | | |

Mouser Electronics

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MultiTech:

ANHB-50HRA CA15-9-D DIN-FLANGE-10PACK DIN-FLANGE-RA-10PACK DIN-MTR-MTC-10PACK PB-AU PB-AU LEVEL VI PB-CN PB-EU PB-GB PB-NAM CASMA-MMCX-1 CASMA-MMCX-10 ANGPS-50MM ANGSM-GPS-10MM ANGSM-GPS-50MM ANHB-10HRA ANHB-1HRA ANPB2-10HRA ANPB2-1HRA ANPB2-50HRA ANWF-1HRA CASMA-MMCX-50 CASMA-UFL-50 CARSMA-UFL-50 PB-CN LEVEL VI PB-EU LEVEL VI PB-GB LEVEL VI PB-NAM LEVEL VI