

USR3500

COURIER® M2M 3G CELLULAR MODEM

PTCRB CARRIER APPROVED, GSM/GPRS/EDGE/HSPA+ SPEEDS

CELLULAR
M2M

Introducing the new USRobotics® Courier® M2M 3G Cellular modem, the latest in the Courier product line known around the world for its reliability, security and performance for mission critical applications. The intelligent terminal is ready to use out of the box on GSM HSPA+ global wireless networks with GPS capabilities and added robust software for easier programming, configuration, and customization. One configuration enables the option for persistent connectivity for M2M applications that require always-on bidirectional data transfers. With an extended working temperature range and compact size this reliable device is an ideal solution for M2M applications including remote maintenance & control, Point of Sale, environmental monitoring, transportation, automation, security systems, and Out of Band management. Carrier approved with full certifications, this device is ready for quick implementation, reducing customer costs significantly and lowering the entry barriers to a wide range of M2M solutions for an easier transition from analog to cellular.



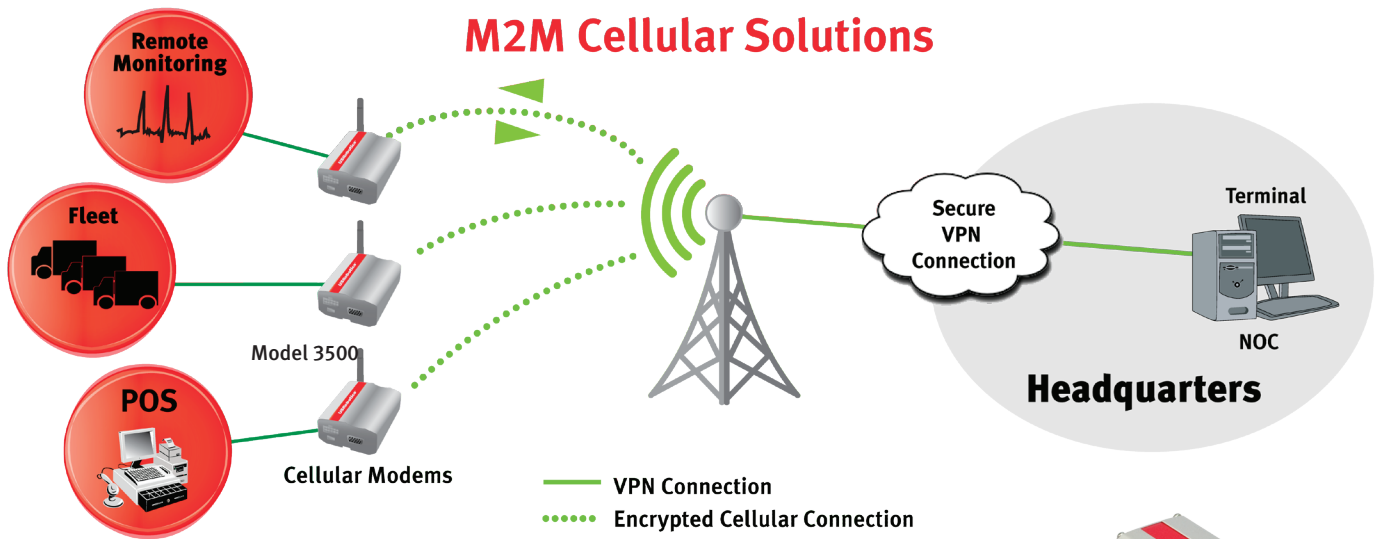
Comprehensive Secure M2M Cellular Solution

<i>Complete Solution*</i>	<ul style="list-style-type: none">• Provisioned SIMs with MVNO partnerships already in place for qualified customers*• Simple and easy all-in-one billing for worldwide accounts• Access to worldwide carriers• Reduce costs with data pooling• User-to-modem connections with static IP addressing• Remote diagnostics for both the modem and the service
<i>Global Approvals</i>	<ul style="list-style-type: none">• PTCRB Approved• Safety and Regulatory Certifications - FCC, CE, IC, R&TTE
<i>Cellular Networks</i>	<ul style="list-style-type: none">• Penta-band 800/850/900/1900/2100 MHz• HSPA+, UMTS/HSPA, EDGE/GSM/GPRS• HSDPA packet data bandwidth up to 14.4 Mbps
<i>Multiple interfaces</i>	<ul style="list-style-type: none">• RS-232 (DB15) Serial• USB 2.0†
<i>GPS</i>	<ul style="list-style-type: none">• Asset Tracking Capability
<i>Courier Brand</i>	<ul style="list-style-type: none">• Reliable modems you can trust• Business class - rock solid quality you can depend on
<i>Security</i>	<ul style="list-style-type: none">• Encrypted cellular connections when combined with a network operator's secure tunnel prevent eavesdropping and block unauthorized access*• User programmable warning banner
<i>Simple User Interface</i>	<ul style="list-style-type: none">• Familiar Command Line Interface• AT command compatible
<i>Industrial Quality Design</i>	<ul style="list-style-type: none">• Compact design ideal for branch offices with small IT closets or small off-site locations in need of remote management• Rugged aluminum housing for use in harsh conditions• Versatile mounting options
<i>Advanced Features</i>	<ul style="list-style-type: none">• Persistent and reliable connectivity ideal for remote management solutions• Remote configuration capability• Unlimited programmability with powerful high level AT commands versus complex C/C++ programming or scripting• Save time and effort with easy pre-programmed functions• Stand-alone operation for a smaller footprint and lower power consumption

* Services dependent on MVNO partnership for qualified customers, subscriptions may be required.

† For software developers only. Device drivers are not available for user applications.

M2M Cellular Solutions



MODEL 3500 COURIER M2M 3G CELLULAR MODEM



SPECIFICATIONS & STANDARDS

PHYSICAL

- 1 USB 2.0 connection: Standard Mini USB Type B†
- 1 RS-232 connection: DB15-F
- 1 SIM slot (1.8V/3V)
- 1 Main Antenna Connection: 50 Ohm SMA female
- 1 Diversity Antenna Connection: 50 Ohm SMA female
- 1 GPS Antenna Connection: MMCX
- Power Connector: 10 pin Micro-Fit™ socket
- 2 GPIO Pins, AT command controlled
- LED Network status indicator

POWER

- Voltage range 4.75 to 32VDC
- Transmit mode - 3.7A peak at 4.75V
- Average current - 850mA at 4.75V
- Low Power Mode, external trigger
- Core Frequency: 480 MHz
- Sleep Idle Mode average current - 0.78 mA
- RTC backup battery

RADIO TECHNOLOGY & FREQUENCY BANDS

- HSPA+
- 3G Penta-band 800, 850, 900, 1900, 2100 MHz
- 2G 850, 900, 1800, 1900 MHz
- Voice and Data support
- HSDPA Packet Data up to 14.4 Mbps
- SMS - Text & PDU, Point-to-Point (MT/MO), Cell broadcast

SECURITY

- OTA encryption: A5/3 and A5/1

GPS

- Embedded Standalone GPS
 - Tracking sensitivity: -155 dBm
 - Cold start sensitivity: -145 dBm
 - Hot start sensitivity: -155 dBm
 - Open sky TTFF: cold start < 45 second average
 - Open sky TTFF: super hot start < 3 second average
 - Open sky accuracy: <10m
- NMEA sentences: GGA, GSA, GSV, RMC, VTG
- Active GPS Antenna Bias

COURIER M2M OPEN AT® APPLICATION

- Bearer Management to stay connected
- AT Commands over SMS or Telnet for remote diagnostics and configuration
- Client and Server TCP or UDP Sockets
- Email client with SMTP and POP support
- Programmable warning banner
- GPIO control
- Programmable device management

REGULATORY & APPROVALS

- CE/R&TTE
- EMC Compliance:
 - FCC Part 15 Class B
 - EN55022 Class B
 - EN55024
- Radio compliance:
 - EN 301 489-1
 - EN 301 489-3
 - EN 301 489-7
 - EN301 489-24
 - FCC Part 22,24; RSS 132,133
- Safety:
 - IEC 60950-1
- Industry Canada/IC
- Network: PTCRB
- A-tick
- RoHS Compliant
- WEEE Compliant

ENVIRONMENTAL

- **Temperature conditions:** Operating: -30 to 75° C, Non-Operating: -40 to 85° C

ENCLOSURE TYPE

- Industrial Grade Aluminum

PACKAGE DIMENSIONS/WEIGHT

- 8.625 x 6.125 x 3.125 in. (22 x 15.6 x 8 cm)
- 1.5 lb (.68 kg)

PRODUCT DIMENSIONS/WEIGHT

- 3.54 x 2.36 x 1.18 in. (90 x 60 x 30 mm)
- .28 lb (.125 kg)

PACKAGE CONTENTS

- USRobotics Courier M2M Cellular Modem
- One (1) 2db SMA Penta-band Antenna
- Universal power adapter 100 V – 240 V with UK, European, and US plugs
- DB15 to DB9 Serial Cable (5 ft/1.5 m)
- Two (2) Mounting bridles
- Quick Installation Guide

PRODUCT NUMBERS & AVAILABLE ACCESSORIES

- USR3500
- USR3505-ATT AT&T SIM Card
- USR3505-ROG Rogers SIM Card
- USR3505-VOD Vodafone SIM Card
- USR3505-ACT SIM Activation
- USR3506-ACC Mobile Accessory Kit
- USR3506-ETH Ethernet Expansion Kit

WARRANTY

- One-year limited manufacturer warranty from date of purchase

* Services dependent on MVNO partnership for qualified customers, subscriptions may be required.
† For software developers only. Device drivers are not available for user applications.



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