

USR3510

CELLULAR  
M2M

# COURIER® M2M 3G CELLULAR GATEWAY WITH GPS

PTCRB APPROVED, CDMA/EV-DO/GSM/GPRS/EDGE/HSPA+ SPEEDS

The new USRobotics® Courier® M2M 3G Cellular Gateway provides LAN to WWAN routing and GPS functionality in a single device certified on all major 3G cellular networks (CDMA/EVDO and WCDMA/HSPA+). An embedded serial port allows quick implementation for a wide variety of serial based systems already out in the field making it ideal for M2M Serial applications including remote maintenance and control, Point of Sale, monitoring, and automation. The Courier Cellular Gateway is simple to configure locally or remotely from your PC, tablet or smartphone with the cloud based GUI allowing fast implementation — reducing customer costs significantly and lowering the entry barriers to a wide range of M2M solutions and an easier transition from analog to cellular. USRobotics’ cellular modems and gateways continue to offer reliable, secure connections for mission critical applications — now for both GSM and CDMA networks allowing more flexible and cost-effective global solutions.

# USRobotics®

A Division of UNICOM® Global

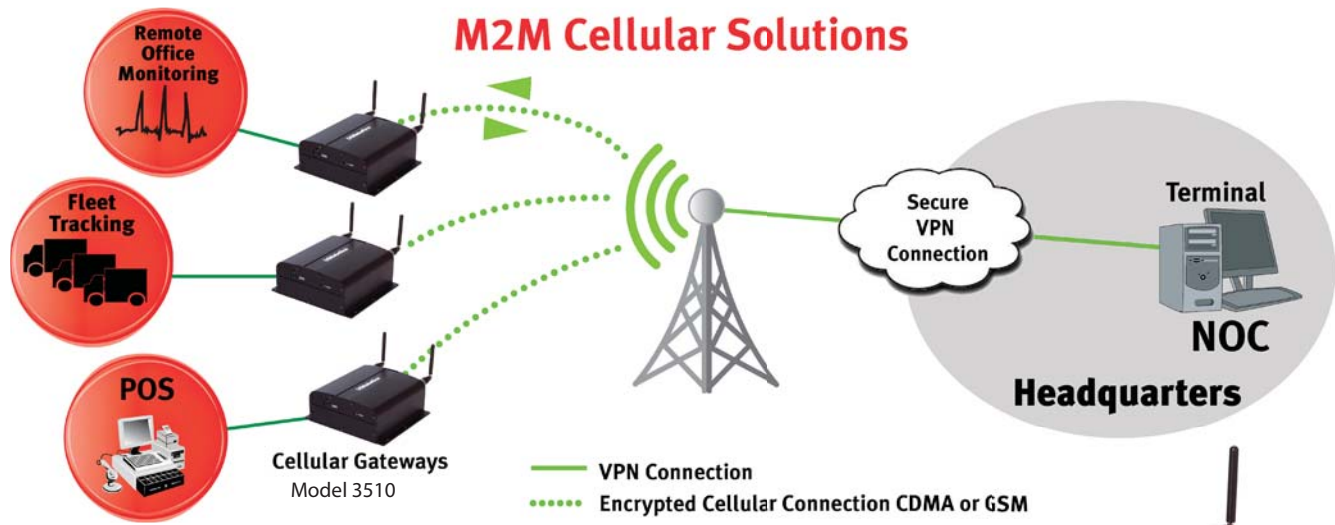


## Making M2M Cellular Connections Easier

<i>M2M Partnerships for a Complete Solution</i>	<ul style="list-style-type: none"> <li>• Access to MVNO with no volume restrictions offering worldwide SIMs and data plans</li> <li>• Provisioned SIMs available for immediate drop ship for qualified customers*</li> <li>• Dedicated Sales and Engineering staff available to help plan M2M solutions</li> </ul>
<i>Courier Brand</i>	<ul style="list-style-type: none"> <li>• Reliable modems trusted by IT admins for over 30 years</li> <li>• Business class, rock solid quality you can depend on for mission critical applications</li> </ul>
<i>Security &amp; Reliability</i>	<ul style="list-style-type: none"> <li>• Encrypted cellular connections when combined with a network operator’s secure tunnel prevent eavesdropping and block unauthorized access*</li> <li>• All software and configuration images are protected with digital signatures with rollback safety</li> <li>• Built in software and hardware watchdogs monitor the device automatically resolving common problems including persistent connectivity and automatic reboot ideal for remote management solutions.</li> <li>• Certificate and password based security mechanisms protect all management functions. All management actions use hardware assisted encrypted links.</li> <li>• Wired LAN connectivity facilitates compliance with strict medical safety requirements</li> </ul>
<i>Easy Setup</i>	<ul style="list-style-type: none"> <li>• Simple and fast installation with custom settings for each device</li> <li>• Change network carriers in less than a minute</li> <li>• User friendly GUI (Graphical User Interface) for configuring SIMs, firewalls, and port filtering.</li> </ul>
<i>Industrial Quality Design</i>	<ul style="list-style-type: none"> <li>• Compact design ideal for branch offices with small IT closets or small off-site locations in need of remote management</li> <li>• Rugged aluminum housing for use in harsh conditions</li> <li>• Concealed SIM slot discourages unauthorized removal of SIM</li> <li>• Versatile mounting options to increase stability and security</li> </ul>
<i>Cellular Networks</i>	<ul style="list-style-type: none"> <li>• HSPA+, HSUPA, HSDPA, UMTS, EDGE/GSM/GPRS</li> <li>• CDMA 1xRTT/EV-DO</li> <li>• AWS Band</li> </ul>
<i>Regulatory Approvals</i>	<ul style="list-style-type: none"> <li>• PTCRB (USR3510)</li> <li>• GCF compliant (USR803510)</li> <li>• FCC, IC (USR3510)</li> <li>• CE, R&amp;TTE (USR803510)</li> </ul>
<i>Multiple interfaces</i>	<ul style="list-style-type: none"> <li>• RS-232 (DB9) Serial interface for easy communication with console ports, ATMs, digital signage, and meters.</li> <li>• 10/100 RJ45 Ethernet to connect to LANs, ATMs, and POS systems (credit card processors).</li> </ul>
<i>Embedded GPS</i>	<ul style="list-style-type: none"> <li>• Asset Tracking capability</li> </ul>
<i>Advanced Features</i>	<ul style="list-style-type: none"> <li>• Web based remote configuration capability via dynamic DNS or static IP.</li> </ul>

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

# M2M Cellular Solutions



## USR3510 Courier M2M Cellular Gateway



### Specifications & Standards

#### Physical

- 1 Main Antenna Connection: 50 Ohm SMA female (WWAN Main)
- 1 Diversity Antenna/GPS Connection: 50 Ohm SMA female (WWAN Div / GPS)
- 1 RS-232 connection: DB9-F
- 1 10/100 Mbps RJ45 Connector
- 1 Power connector: 4 pin Micro-Fit™ 3.0, dual row, 2 circuits
- 7 3-color LEDs showing system status and signal strength
- 1 x reset switch
- 1 internal SIM slot (1.8V/3V) - USIM/SIM Class B and Class C

#### Power

- DC Power in 9-33 V DC
- Attached to 2G network, no Ethernet: 121mA<sup>†</sup>
- Attached to 2G network, Ethernet connected: 136mA<sup>†</sup>
- Attached to 2G network, no Ethernet, 2G call (2Tx, 32dBm): 270mA, peak = 772mA<sup>†</sup>
- Attached to 3G network, no Ethernet, 3G call @ 2100MHz (band I): 341mA<sup>†</sup>

#### Radio Technology & Frequency Bands

- 3G UMTS/HSDPA/HSUPA/HSPA+: 800-850/900/1900/2100 MHz and AWS band (1700/2100MHz) (B1, B2, B4, B5, B6, B8)
- 2G GSM/GPRS/EDGE: 850/900/1800/1900 MHz
- CDMA 1xRTT/EV-DO rev0/EV-DO revA (GTM689 only): 800/1900MHz (BC0, BC1)

#### Max. connectivity speeds

- HSPA+: 14.4Mbps (Cat 10) down, 5.76 (Cat 6) up
- EV-DO RevA mode: 3.1Mbps FL / 1.8Mbps RL
- HSPA+ Rel 7 SW features CPC (DTX/DRX), Enhanced L2, EF-DPCH

<sup>†</sup>All measurements at 12V DC

#### GPS

- Assisted/Standalone GPS
  - Standalone GPS, Assisted GPS, gps OneXTRA™
  - Wideband GPS processing (20MHz) for improved measurement accuracy
- Embedded Standalone GPS
  - Tracking sensitivity: -159 dBm
  - Cold start sensitivity: -145 dBm
  - Hot start sensitivity: -159 dBm
  - Open sky TTF: cold start: 40 seconds
  - Open sky TTF: super hot start: 1 second
  - Open sky accuracy: < 3M CEP -50
- NMEA sentences: GGA, GSA, GSV, RMC, VTG

#### Security

- IPsec VPN
  - Encryption: 3DES, AES128, AES 256
  - Authentication: MD5, SHA1, SHA256
  - Key Group: DH1, DH2, DH5, DH14
- Firewall
  - DMZ
  - Inbound Port Forwarding
  - Outbound Port Filtering
  - Outbound Trusted IPs

#### Graphical User Interface

- HTML configuration is supported by most web browsers

#### Regulatory & Approvals

- FCC
- Industry Canada/IC
- Network: PTCRB
- RoHS Compliant

#### Environmental

- **Temperature conditions:** Operating: -30 to 70° C, Non-Operating: -40 to 85° C
- **Humidity operational:** 5%-95% non-condensing

#### Carrier Approvals

- AT&T
- Verizon
- Sprint
- US Cellular
- Aeris
- T-Mobile
- Bell Mobility
- Telus

#### Enclosure Type

- Industrial Grade Aluminum

#### Mounting

- 6 through holes for M4 bolts - 2 x 2 compatible with VESA Mount MIS-D 75 (optional standard DIN rail mounting interface)

#### Package Dimensions/Weight

- 8.5 x 5.55 x 2.5 in. (21.6 x 14.1 x 6.35 cm)
- 1.22 lb (.55 kg)

#### Product Dimensions/Weight

- 4.53 x 4.13 x 1.77 in. (11.5 x 10.5 x 4.5 cm)
- .75 lb (.34 kg)

#### Package Contents

- USRobotics Courier M2M Cellular Gateway
- Two (2) 2db SMA Penta-band Antennas
- US Power Supply
- Quick Start Guide

#### Product Numbers

- USR3510 - North America GSM/CDMA
- USR803510 - Europe GSM Only

#### Warranty

- Two-year limited manufacturer warranty from date of purchase

Distributed By:

**multi-link inc.**  
122 Dewey Drive • Nicholasville, KY 40356  
800.535.4651 • www.multi-link.net

**USRobotics®**

A Division of UNICOM® Global

www.usr.com

IC Approved  
Approuvé par IC

