

COURIER® M2M 3G CELLULAR MODEM ACCESSORIES

CELLULAR
M2M

SIM Cards are available for AT&T, Rogers, and Vodafone networks around the world with optional SIM activation at time of shipment or manual activation via online portal access. Add additional mobile capabilities with a GPS antenna, a GSM Diversity Antenna, and a DC Cable that allows easy connection to automotive or other DC power sources. Add Ethernet capability to the USR3500 Cellular Modem with this Expansion Card to connect 10/100 Ethernet devices.

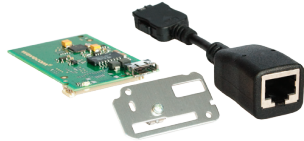
USRobotics®

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USR3506-ETH ETHERNET EXPANSION KIT

PACKAGE CONTENTS

- Ethernet Expansion Card
- Backplate and spring contacts
- RJ45 Interface Cable



FEATURES AND SERVICES

- IEEE 802.3 Compatible
- Integrated MAC and 10 BASE-T PHY
- Receiver and collision squelch circuit
- Supports one 10BASE-T port
- Supports Full and Half-Duplex modes
- Shielded RJ-45

USR3506-ACC MOBILE ACCESSORY KIT

PACKAGE CONTENTS

- DC Cable
- GPS Antenna
- GSM Antenna



USR3505-xxx SIM CARDS

ATT - AT&T, NORTH AMERICA
ROG - ROGERS, CANADA
VOD - VODAFONE, GLOBAL
ACT - ACTIVATION



DC Cable		
Length	1.5M	
Terminations	10-pin Microfit female connector	
	6-wires, 50mm length, stripped & tinned	
	2@20AWG, 4@28AWG	
Fuse	2A/250V slow blow, 5*20mm, replaceable	
Diversity Antenna*		
Antenna Size [W x L x H]	18.4 x 8.0 x 49.5mm	
Frequency Range supported [MHz]	850 / 900 / 1800 / 1900 / 2100	
Connector	SMA (Male)	
Max Gain [dBi]	824 - 960 MHz	1.0 (peak), -0.5 (min)
	1710 - 1990 MHz	2.0 (peak), 0.5 (min)
	1920 - 2170 MHz	2.5 (peak), 2.0 (min)
Efficiency [%] / [dB]	824 - 960 MHz	65 / -1.8 (peak), 50 / -3.0 (min)
	1710 - 1990 MHz	65 / -1.8 (peak), 50 / -3.0 (min)
	1920 - 2170 MHz	65 / -1.8 (peak), 50 / -3.0 (min)
Return loss min. [dB]	824 - 960 MHz	-4
	1710 - 1990 MHz	-6
	1920 - 2170 MHz	-6
Impedance	50Ω	
Electrical Length	¼λ	
Operating Temperature [°C]	-40 to +85	

* Diversity Antenna specifications are typical and may vary.

GPS Antenna	
Weight	< 110 grams
Antenna Size	49x39x14mm
Cable	RG174/U 3 meters
Connector	MMCx m. right angle
Mounting	Magnetic base
Housing	Black
Center Frequency	1575.42MHz ± 3 MHz
V.S.W.R	1.5 : 1
Band Width	±5 MHz
Impedance	50Ω
Peak Gain	> 3dBic Based on 7x7cm ground plane
Gain Coverage	> -4dBic at -90° < 0 < +90° (over 75% Volume)
Polarization	RHCP
LNA Gain (without cable)	28dB (typical)
Noise Figure	1.5dB
Filter Out Band Attenuation (f0=1575.42 MHz)	7dB Min f0+/-20MHZ
	20dB Min f0+/-50MHZ
	30dB Min f0+/-100MHZ
V.S.W.R	< 2.0
DC Voltage	3.0V to 5.0V
DC Current	10mA Max
Operating Temp [°C]	-40 to +85
Weatherproof	100% Waterproof

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