

# MIMO Antenna

For 3G/4G AirCard® USB Modems and Mobile Hotspots



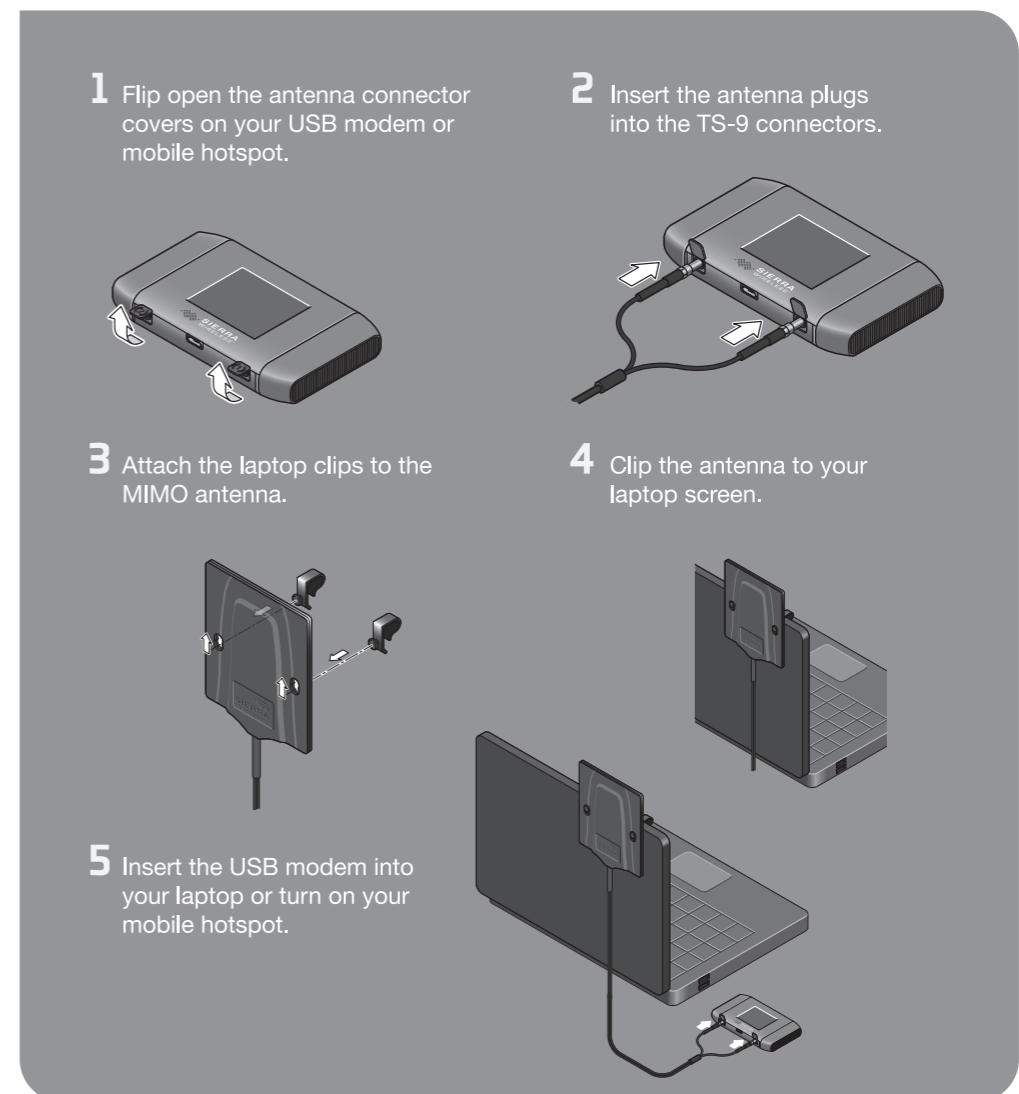
MIMO, 3G/4G Antenna with 2 TS-9 connectors  
 GSM/EDGE/UMTS/HSPA/HSPA+/HSPA+DC/CDMA/EV-DO/LTE  
 700-960/1710-1990/2110-2170/2500-2700 MHz

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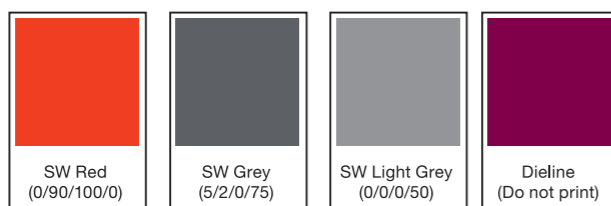
For 3G/4G AirCard® USB Modems and Mobile Hotspots



**Usage:** Laptop screen mounted external antenna for improving MIMO, 3G/4G coverage in areas with low signal strength.  
**Cable Length:** 50 cm / 19.7"  
**Compatibility:** AirCard 753S/754S, AirCard 312U/313U. Requires USB or mobile hotspot with 2 TS-9 connectors.  
**Note:** Ideal for use in low signal areas.



Accessory Part Number: 6000450  
 AirCard is a registered trademark of Sierra Wireless.  
 © 2011 Sierra Wireless, PN 2400117 Rev 1  
 To comply with U.S. Federal Communications Commission (FCC) and Industry Canada (IC) guidelines respecting safety levels of radio frequency (RF) exposure, a separation distance of at least 20 cm / 8 inches is required between the external antenna and user body. To comply with R&TTE Directive 1999/5/EC, please install your external antenna as shown in the picture.



1	March 16, 2011	JF
<b>REV</b>	<b>CHANGE NOTICE</b>	<b>DATE DRFT APP</b>

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<b>TITLE:</b> 2400117 MIMO ANTENNA BACK CARD		
<b>DESIGNED:</b> Jana Fernandes	<b>DRAWING NO:</b> 2400117	<b>REV.</b> 1
<b>APPROVED:</b>	<b>SCALE:</b> 100% <b>SIZE:</b>	<b>SHEET</b>

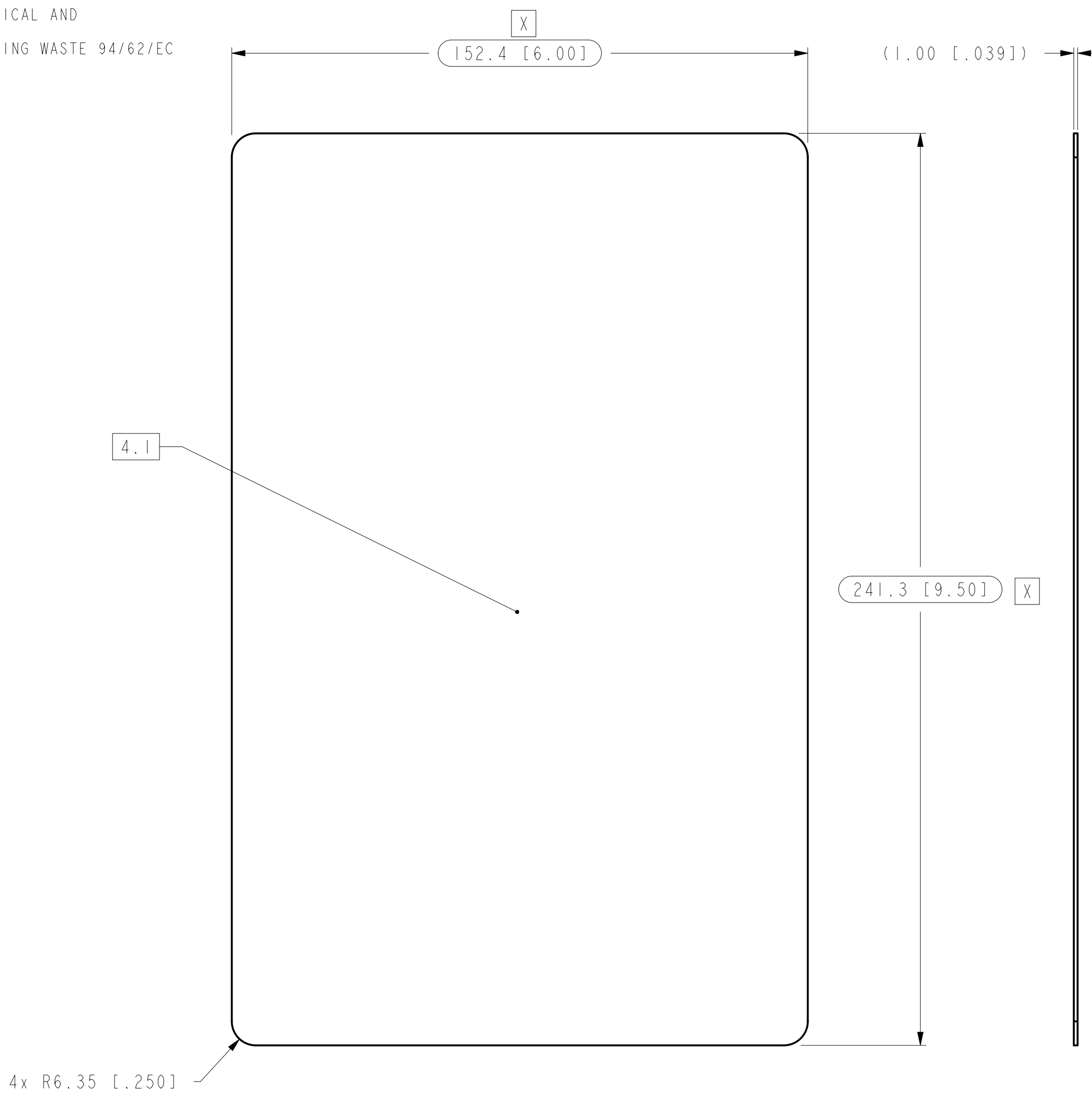
I NOTES APPLICABLE TO PART MANUFACTURER:

1. DESCRIPTION AND APPLICATION: RETAIL BOX FOR WIRELESS COMMUNICATIONS DEVICE PACKAGING
2. APPLICABLE DOCUMENTS:
  - 2400117 REFERENCE ARTWORK
  - 2140122 SIERRA WIRELESS GENERIC COSMETIC SPECIFICATION
  - ASME Y14.5M-1994 GEOMETRIC DIMENSIONING AND TOLERANCING
3. MATERIAL:
  - 3.1 600G CLAY COATED CHIPBOARD (1mm ± 0.01mm THICK)
  - 3.2 THE PART/ASSEMBLY SHALL CONTAIN NO HAZARDOUS SUBSTANCES PER THE WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE) 2002/96/EC RoHS DIRECTIVE.
  - 3.3 THE PART/ ASSEMBLY SHALL CONFROM TO THE EU DIRECTIVE ON PACKAGING AND PACKAGING WASTE 94/62/EC
4. FINISH:
  - 4.1 GLOSSY PP LAMINATE, BOTH SIDES
  - 4.2 REFER TO ARTWORK FILE 2400117 FOR GRAPHIC SPECIFICATIONS
5. GENERAL REQUIREMENTS:
  - 5.1 PARTS SHALL BE CLEAN AND FREE OF ALL FOREIGN MATTER.
  - 5.2 REFERENCE ARTWORK P/N 2400117.
  - 5.3 CONTROLLING GEOMETRY IS DEFINED BY DXF FILE DATABASE. ALL SURFACE TO BE WITHIN 0.10 OF DATABASE UNLESS OTHERWISE SPECIFIED.
6. QUALITY ASSURANCE REQUIREMENTS:
  - 6.1 ALL DIMENSIONS INDICATED ON DRAWING ARE CRITICAL TO FORM, FIT, OR FUNCTION.
  - 6.2 DIMENSIONS INDICATED WITH A [X] SYMBOL DENOTE QUALITY PROCESS CONTROL, (QPC), DIMENSIONS.
  - 6.3 PRODUCTION LOT SAMPLES MUST DEMONSTRATE A Cpk VALUE OF 1.33 OR HIGHER. IF THE Cpk DROPS BELOW 1.33 AT ANY TIME DURING THE MANUFACTURE OF THIS PART, THEN THE SUPPLIER MUST 100% SCREEN ALL THOSE PARTS TO THOSE SPECIFIED CRITICAL PARAMETERS.
- 7.1 NO CHANGE SHALL BE ALLOWED ON PRODUCTION MATERIAL, REGARDLESS OF WHETHER SUCH CHANGE AFFECTS REQUIREMENTS SPECIFIED, WITHOUT PRIOR EXPLICIT WRITTEN APPROVAL BY SIERRA WIRELESS.

II NOTES APPLICABLE TO CONTRACT MANUFACTURER:

1. INCOMING INSPECTION DIMENSION MARKED BY (XX.XX)
2. SAMPLE INSPECTION PER QE1-11-0000-18.
3. CONTRACT MANUFACTURER SHALL REQUIRE PART MANUFACTURER TO PROVIDE SPC DATA AND REVIEW WITH SIERRA WIRELESS.

REV	DESCRIPTION	DATE	DRAWN	APPD
1	RELEASED FOR PRODUCTION	23-FEB-11	BW	BG



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UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE PER THE FOLLOWING TOLERANCES:		PROJECT NAME MIMO ANTENNA		PART DESCRIPTION BACKCARD, MIMO ANTENNA	
INCHES	MM	ANGLES	DATE	13811 Wireless Way	
.X ± .1	X ± 2.5	X ± 2°	20-JAN-11	Richmond, British Columbia	
.XX ± .06	X.X ± 1.5	X.X ± 1.0°	20-JAN-11	Canada, V6V 3A4	
.XXX ± .040	X.XX ± 1.00		23-FEB-11	Tel: 604.231.1100	
MATERIAL	SEE NOTES	CHK	B. GILBERT	Fax: 604.231.1109	
FINISH	SEE NOTES	PRJ FILENAME	2400117	SIZE	UNITS
DO NOT SCALE PRINT			2400117	C	MM
			RELEASE LEVEL	DRAWING NO.	REV
			PRODUCTION	2400117	1_0
			0	SCALE: 1.000	SHEET 1 OF 1