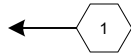


SOLUTION FOR 3G HSPA/ EVDO in 850, 1900, 1700, 2100 MHz Bands

Multi-Band Cellular Antenna

821-896MHz, 1850-1990MHz
9dBi Omni antenna, N-Female,
L=18", mount on 1/4" mast



2ft LMR400 Cable, N-Male/N-
Male Jumper

Lightning discharge device DC-6GHz,
N-Fem, 50Ω, (OPTIONAL)

NOTE 1.0

9dBi Multiband Omni-Directional Cellular Antenna

75ft LMR400 Coaxial Cable, N-Male/N-Male,
Attenuation = 6.9db/100ft (4.4dB loss for
this 75ft run)



In-Building or Weatherized Outdoor Enclosure

3G Modem & Pigtail
(N-Female)

WWAN ROUTER (CELL/
WIMAX)

WiFi 802.11b/g/n (connect optional
high gain outdoor 2.4GHz antennas)

CAT5/6 to LAN (connect
multiple computers/
printers etc)

Connect to 120/
240VAC outlet

**AT&T USBConnect
Lightning 3G Modem**

NOTE 2.0

**Cradlepoint MBR1000 Cellular/WiFi
Router**



Outdoor Omni-Directional Antenna for 3G UBS Modem

Outdoor Antenna, 3G USB Dongle, 3G Cellular Router, Lightning Protection
JOB # BWA-40850-xxxx
Generic 3G USB Modems

DRAWN BY: RT (Engr)	SIZE	LIC NO	DWG NO	REV
APPROVED BY:		AZ ROC # 253407	BW-408500630-001	1A
FREQ(s): Multiple Cellular Bands	SCALE	NO SCALE	FRN: 0018086041	SHEET 1 OF 1

Bill of Materials			
ITEM	QTY.	RFWEL SKU	DESCRIPTION
1	1	TSCL295-PW	9dBi Dual Band Omni-Directional Cellular Antenna, N-Female Jack
2	1	952302	2ft LMR-400 low loss coaxial cable (N-Male/N-Male)
3	1	859902	Coax Lightning protector DC-2GHz, IL<0.7dB, 230VDC, N-Fem
4	1	952375	75ft LMR-400 low loss coaxial cable (N-Male/N-Male)
5	1	{NOTE 2.0}	USB External Antenna Adapter/Pigtail {See NOTE 2.0}
6	1	{NOTE 3.0}	USB Cellular/WiMax Modem {See NOTE 3.0}
7	1	MBR1000	CradlePoint MBR1000 Failsafe Cellular/WiMax/WiFi Router

NOTES:

-
- 1.0 Ground per NEC-2005 Art820 using 14AWG+ grounding electrode
- 2.0 Can replace this 3G modem for any other HSxPA, EVDO, WiMax modem. Would just need a different pigtail which is available here:
<http://www.rfwel.com/shop/product.php?productid=629>