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Primary Cellular Antenna

Secondary Diversity Cellular Antenna



Dualband Cellular Omni 850/1900MHz Setup w/ Lightning Protection

Fastech : Airlink Raven Cellular Omni Antennas
JOB # BWA-41650-xxxx
Generic Remote Site Wireless Monitoring

DRAWN BY: RT (Engr) APPROVED BY:	SIZE	LIC NO AZ ROC # 253407	DWG NO BW-416501009-001g	REV 1A
FREQ(s): 850/1900MHz	SCALE NO SCALE	FRN: 0018086041	SHEET 1 OF 1	

1 Dual Band 850/1900MHz Marine Antenna, 5.12dBi/6.12dBi, FME-Female

NOTE 2.0

2 Marine antenna mount

3 FME-Male/N-Male Adapter

4 Lightning discharge device DC-2GHz, 300W, 230VDC, 50Ω, N-Female

5 25ft LMR400 Coaxial Cable, N-Male/SMA-Male, Attenuation = 5.84db/100ft @ 1.9GHz (~1.5 dB loss for this 25ft run)

NOTE 1.0

Bill of Materials			
ITEM	QTY.	RFWEL SKU	DESCRIPTION
1	2	CL301130	Dual Band 850/1900MHz Marine Antenna, FME-Female
2	2	CL901119	Marine Antenna Mount
3	2	CL971113	FME-Male/N-Male Connector
4	2	859902	Lightning Surge Protector, DC-2GHz (N-Female/N-Female)
5	2	CAB400-SMMN_25FT	25ft LMR-400 low loss coaxial cable (N-Male/SMA-Male)
6	1	CLRAVENX1	Raven X Modem for HSDPA/HSUPA & EVDO RevA

NOTES:

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- 1.0 Ground per NEC-2005 Art820 using 14AWG+ grounding electrode
- 2.0 For higher omnidirectional antenna gain consider the 9dBi multi-band cellular antenna:
www.rfwel.com/shop/product.php?productid=17536. This includes an N-Female connector so would not need item#3. Also includes pole mounting brackets so wouldn't need item#2 unless you want this mounting style in which case you may add a 1.25" male threaded ferule to allow use of the marine antenna mount:
www.rfwel.com/shop/product.php?productid=17535
- 3.0 For a low profile antenna option and remote battery backup as shown in VARIATION#1:
 - 30W 12V Outdoor UPS:
www.rfwel.com/shop/product.php?productid=2005
 - Low profile multiband antenna:
www.rfwel.com/shop/product.php?productid=2008

VARIATION#1: Shown with Outdoor Battery Backup UPS & Low-Profile Cellular Antenna

NOTE 3.0



6 Airlink Raven X with SMA-Female Primary & Diversity Antenna ports

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