

QUARTERWAVE ANTENNAS

Our most inexpensive mobiles receive our most detailed attention, with a brass button contact and new heavy duty specially formulated Stand-Up™ grommet. Whatever your mobile communications need, you can be sure that **ANTENEX** has a solution for you.

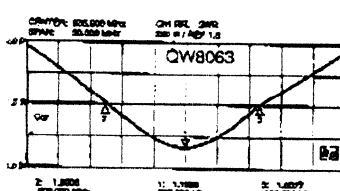
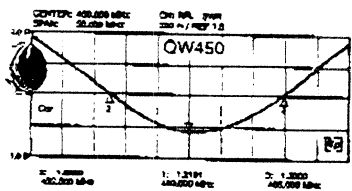
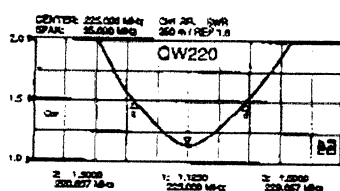
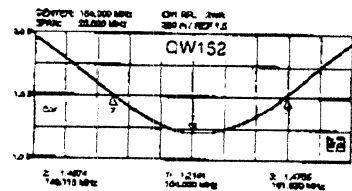


QW800, QWB800, QW450, QWB450, QWB8063, QWB8063
Inset: Stand-up™ Grommet, Inset: Brass Contact

Technical Data - Product Features & Information

- Gain:** Unity for 1/4 wave antennas and 3 dB for open coil flexible models.
- Frequency Range:** See model.
- SWR:** <2.0:1
- Maximum Power:** 200 watts
- Bandwidth @2.0:1:** QW152 - 18 MHz QW450 - 80 MHz
QWB800 - 150 MHz QWB8253 - 40 MHz
- Impedance:** 50 ohms
- Tuning:** Mid-band is standard. Custom tuning is available.
- Mounting Base:** Brite or black chrome plated brass locking nut.
- Radiator:** Type 302 stainless steel. Electropolished or black chrome plate on open coil collinears. Brite drawn finish or black chrome plate on quarterwaves
- Contact:** Brass button
- Mounts to:** 3/4" hole, 3/8" hole, Magnetic & Mini-Trunk mounts

SWR



ANTENEX

Ordering Guide - Clear, Easy & Simple

QWB8253 = Chrome locking Nut Style, Black, 825-896 MHz, 3 dB	
QW Antenna Style	QW = Chrome locking nut style Antennas 3 = Full length Quarterwave
B Finish	Blank = Chrome Finish 3 = Black Finish
825 Frequency	Frequency component of part number in bold below: FT (118-970) 27-54 136-144 144-152 152-162 162-174 220-225 406-430 430-450 450-470 470-490 490-512 806-866 806-896 825-896 896-970
3 Gain	Blank = Unity 3 = 3 dB

Model	Frequency	Radiator	User	<\$300	\$300- \$1000	>\$1000
UNITY GAIN MODELS						
Stainless Models						
Q27S	27-54 Mhz	102" 1/4 Wave	97.65	46.87	44.92	12.9
QW***	Customer Specified	1/4 Wave	11.25	5.40	5.18	4.9
QW136	136-144 MHz	1/4 Wave	6.25	3.00	2.88	2.7
QW144	144-152 MHz	1/4 Wave	6.25	3.00	2.88	2.7
QW152	152-162 MHz	1/4 Wave	6.25	3.00	2.88	2.7
QW162	162-174 MHz	1/4 Wave	6.25	3.00	2.88	2.7
QW220	220-225 MHz	1/4 Wave	6.25	3.00	2.88	2.7
QW406	406-430 MHz	1/4 Wave	6.25	3.00	2.88	2.7
QW430	430-450 MHz	1/4 Wave	6.25	3.00	2.88	2.7
QW450	450-470 MHz	1/4 Wave	6.25	3.00	2.88	2.7
QW470	470-490 MHz	1/4 Wave	6.25	3.00	2.88	2.7
QW490	490-512 MHz	1/4 Wave	6.25	3.00	2.88	2.7
QW800	806-896 MHz	1/4 Wave	6.25	3.00	2.88	2.7
QW900	896-970 MHz	1/4 Wave	6.25	3.00	2.88	2.7
QWFT120	Field Tunable	1/4 Wave	7.50	3.60	3.45	3.30

Black Models

QWB***	Customer Specified	1/4 Wave	17.45	8.38	8.03	7.64
QWB136	136-144 MHz	1/4 Wave	12.45	5.50	5.27	5.04
QWB144	144-152 MHz	1/4 Wave	12.45	5.50	5.27	5.04
QWB152	152-162 MHz	1/4 Wave	12.45	5.50	5.27	5.04
QWB162	162-174 MHz	1/4 Wave	12.45	5.50	5.27	5.04
QWB220	220-225 MHz	1/4 Wave	12.45	5.50	5.27	5.04
QWB406	406-430 MHz	1/4 Wave	12.45	5.50	5.27	5.04
QWB430	430-450 MHz	1/4 Wave	12.45	5.50	5.27	5.04
QWB450	450-470 MHz	1/4 Wave	12.45	5.50	5.27	5.04
QWB470	470-490 MHz	1/4 Wave	12.45	5.50	5.27	5.04
QWB490	490-512 MHz	1/4 Wave	12.45	5.50	5.27	5.04
QWB800	806-896 MHz	1/4 Wave	12.45	5.50	5.27	5.04
QWB900	896-970 MHz	1/4 Wave	12.45	5.50	5.27	5.04
QWFTB120	Field Tunable	1/4 Wave	13.70	6.58	6.30	6.05

3 dB GAIN MODELS

Stainless Models

QW8063	806-866 MHz	Open Coil Flexible	11.46	5.50	5.27	5.04
QW8253	825-896 MHz	Open Coil Flexible	11.46	5.50	5.27	5.04
QW8963	896-970 MHz	Open Coil Flexible	11.46	5.50	5.27	5.04

Black Models

QWB8063	806-866 MHz	Open Coil Flexible	18.75	9.00	8.63	8.25
QWB8253	825-896 MHz	Open Coil Flexible	18.75	9.00	8.63	8.25
QWB8963	896-970 MHz	Open Coil Flexible	18.75	9.00	8.63	8.25

See pages 32-35 for mounting options!

Vertical Field Patterns





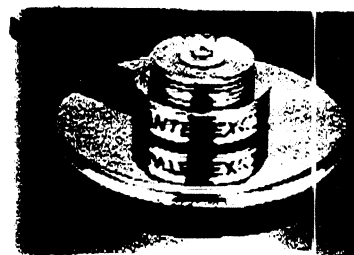
- Clear, Easy & Sensible!

Mount, w/Rubber Boot, 12' of RG58A/U, PL259 Crimp Installed

4ole Size G = Magnetic Mount Style

B	Finish	Blank = Chrome B = Black
R	Rubber Boot	Blank = No Rubber Boot R = Rubber Boot
8	Cable Style	B = RG58A/U 8X = RG8X "low loss" F = Antenex Teflon® Coax Cable BU = RG58U D = Teflex™
P	Connector Style	Blank = No connector PS = PL259 solder PST = PL259 solder Teflon® P = PL259 crimp M = Mini UHF crimp N = BNC crimp N = N crimp NS = N solder T = TNC crimp SM = SMA crimp (for RG58, RG58A/U, Teflex™, & Teflon® only)
	Installation Option	Blank = Loose connector I = Installed connector (Add \$1.00 for crimp, \$1.50 for solder.)
BLANK	Cable Length	Blank = 12 ft is standard on magnetic mounts. *** = User defined length.

Our magnetic mounts are the ideal way to temporarily install antennas in a vehicle. Corrosion resistant materials, a complete weather seal, and a strong magnet ensure that your mount will continue to perform for years. This product may be changed in the field for servicing or cable replacement. All magnetic mounts ship standard with a protective mylar sole. We provide, as an option or for replacement, a protective rubber boot (model GRO) which also helps to protect the mount surface.



"I like the ANTENEX® mounts because of the quality and ease of installation" Jim, Communications Specialists.

Model	Description	User	<\$300	\$300- \$1000	>\$1000
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3/4" STYLE MAGNETIC MOUNTS

Chrome Models with 12' of RG58A/U Stranded Center Cable

G8	No Connector	29.58	14.20	13.61	13.02
G8B	BNC Crimp	32.08	15.40	14.76	14.12
G8M	Mini UHF crimp	32.08	15.40	14.76	14.12
G8N	N Crimp	37.58	18.04	17.29	16.54
G8NS	N Solder	39.08	18.76	17.98	17.20
G8P	UHF (PL259) Crimp	32.08	15.40	14.76	14.12
G8PI	UHF (PL259) Crimp, Installed	34.08	16.36	15.69	15.00
G8PS	UHF (PL259) Solder	32.39	15.55	14.90	14.25
G8PST	UHF (PL259) Teflon Solder	34.08	16.36	15.69	15.00
G8T	TNC Crimp	32.08	15.40	14.76	14.12

Chrome Models with 12' of RG58U Solid Center Conductor Cable

8BU	No Connector	36.00	17.28	16.56	15.84
8UB	BNC Crimp	38.50	18.48	17.71	16.94
8UM	Mini UHF Crimp	38.50	18.48	17.71	16.94
8UN	N Crimp	44.00	21.12	20.24	19.36
8UNS	N Solder	45.50	21.84	20.93	20.02
8UP	UHF (PL259) Crimp	38.50	18.48	17.71	16.94
8UPST	UHF (PL259) Teflon Solder	40.50	19.44	18.63	17.82
8UT	TNC Crimp	38.50	18.48	17.71	16.94

Chrome Models with 12' of Antenex RG8X Low Loss Cable

G8X	No Connector	37.00	17.76	17.02	16.28
G8XB	BNC Crimp	40.75	19.56	18.75	17.93
G8XM	Mini UHF Crimp	40.75	19.56	18.75	17.93
G8XN	N Crimp	45.00	21.60	20.70	19.80
G8XNS	N Solder	47.00	22.56	21.62	20.68
G8XP	UHF (PL259) Solder	40.75	19.56	18.75	17.93
G8XPST	UHF (PL259) Teflon Solder	41.50	19.92	18.08	18.26
G8XT	TNC Crimp	40.75	19.56	18.75	17.93

Chrome Models with 12' of Teflex™ Cable

GD	No Connector	35.42	17.00	16.29	15.58
GDB	BNC Crimp	37.92	18.20	17.44	16.68
GDM	Mini UHF Crimp	37.92	18.20	17.44	16.68
GDN	N Crimp	43.42	20.84	19.97	19.10
GDNS	N Solder	44.92	21.56	20.66	19.76
GDPI	UHF (PL259) Crimp, Installed	39.92	19.16	18.36	17.56
GDPST	UHF (PL259) Teflon Solder	39.92	19.16	18.36	17.56
GDT	TNC Crimp	37.92	18.20	17.44	16.68

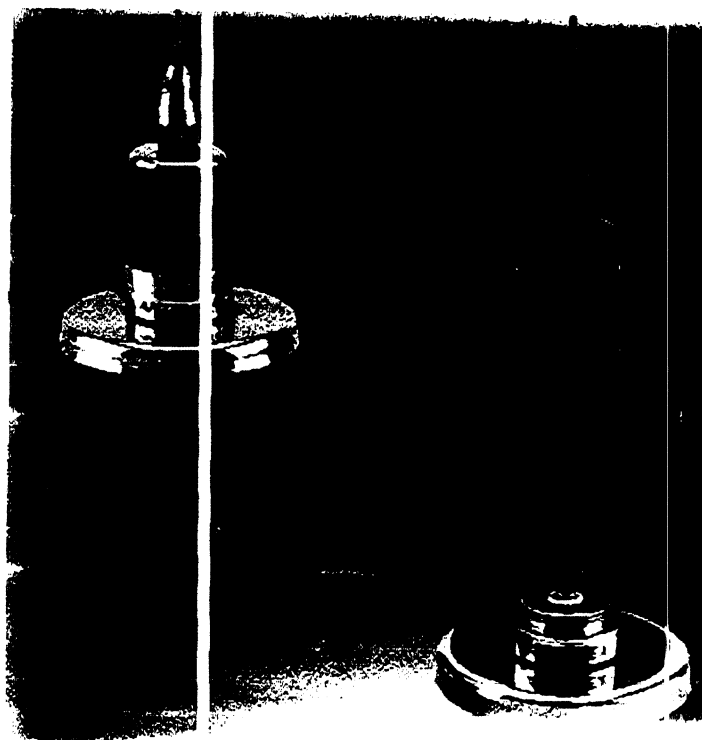
Chrome Models with 12' of Teflon® Cable

GF	No Connector	48.96	23.50	22.52	21.54
GF8	BNC Crimp	51.46	24.70	23.67	22.64
GF8M	Mini UHF Crimp	51.46	24.70	23.67	22.64
GF8N	N Crimp	56.96	27.34	26.20	25.06
GF8NS	N Solder	58.46	28.06	26.59	25.72
GFPI	UHF (PL259) Crimp, Installed	53.46	25.66	24.59	23.52
GFPST	UHF (PL259) Teflon Solder	53.46	25.66	24.59	23.52
GFT	TNC Crimp	53.46	25.66	24.59	23.52

GRO Rubber Boot add: 3.13 1.50 1.44 1.38

For Black on all models add: 4.00 1.92 1.84 1.76

Call for pricing on custom cable and connector options



Top: G8 with optional B1443

Bottom: G8B, G8

Technical Data - Product Features & Information

- 3/4" magnetic mounts are made with brass, ceramic, & steel materials.
- Cable connection is triple reinforced to eliminate cable pull out.
- Magnet is rated at 90 lbs. pull strength. GM mag is rated at 55 lbs. min. mag for portable antennas is rated at 15 lbs. Very adequate for high speed pursuit vehicles.
- 100% continuity and resistance tested.
- Small high performance contact is standard. Large contact is available upon request.
- Protective rubber boot is available.
- Cable is field replaceable.

SPECIFICATION FOR APPROVAL (DUAL BAND ANTENNA)

FMA02A-3A15

AND FMA02A-5A15



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axiom GPS INC. DUAL BAND ANTENNA SPECIFICATION
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Registration No.

axiom DAUL-001-3

Registration Date

Apr. 25, 2001

SPECIFICATION FOR APPROVAL (DUAL BAND ANTENNA)

Center Frequency	1575.42 MHz (L1 E AND)
Polarization	RHCP
Gain	+4dBi
VSWR	2.0:1 Maximum
Impedance	50 Ω
Pattern	Hemispherical
2-2. 900 MHz Antenna	
Frequency	885 to 945 MHz (Center: 915 MHz)
Polarization	Vertical
Gain	Unity
VSWR	2.0:1 Maximum
Impedance	50 Ω
Pattern	Omni-directional

MiraeAsset Venture Tower 4F., 996-1, Dachi-Dong,
Gangnam-Gu, Seoul, Korea 135-280

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Fax : +82-2-567-2991

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DUAL BAND ANTENNA SPECIFICATION

3. LNA (Low Noise Amplifier) FOR GPS ANTENNA

Gain	25dB \pm 2.0dB
Noise Figure	2.0dB Maximum (: 5 $^{\circ}$ C)
Voltage	DC 3V (\pm 10%)
Current	20mA Maximum
Band Att.	20dB (Min.) @fo \pm 50 MHz

4. MECHANICAL SPECIFICATION

4-1. GPS ANTENNA	
Connector	Straight SMA, Male, Gold plated
Cable	1.5D-2V (RG-174), 5m Gray color with label 'GPS'
Case	ABS

Case Color	Black
Mounting	Magnetic Mount
Dimension	Elliption $\phi 50 \times 61 \text{ mm}$
Height	20mm
4-2. 900 MHz Antenna	
Connector	Straight SMA, Male, Silver plated
Cable	RG-174(1.5D-2), 5m Black color
Dimension	$\phi 10.5 \text{ mm}$
Height	70mm

MiraeAsset Venture Tower 4F., 996-1, Dachi-Dong,
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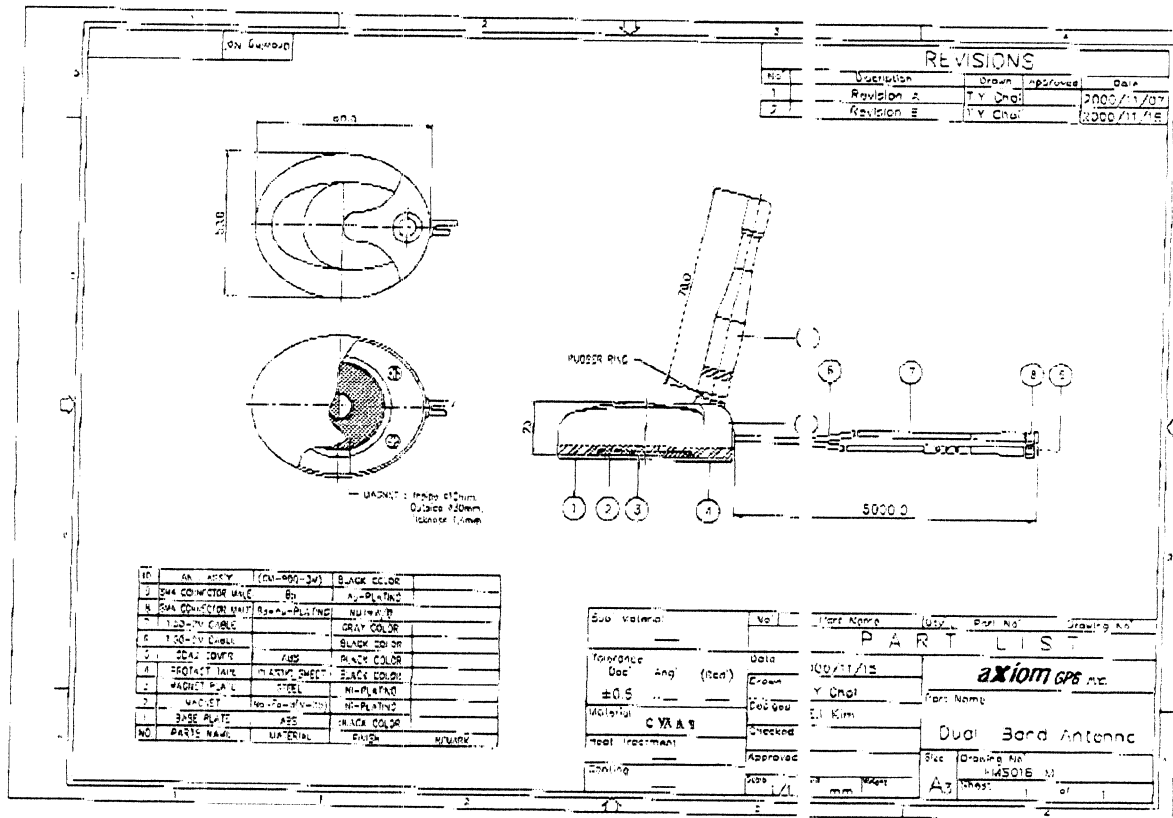
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DUAL BAND ANTENNA SPECIFICATION

5. APPLICATION

FMS & Data Communication

6. OUTLINE DRAWING



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Fax : +82-2-567-2991

7. PART NUMBER

F M A 0 2 A - 3 A I 5

Dual Base Antenna for FMS2000Power

3 = 3.3 Volt

5 = 5 Volt (standard)

RF Connector

N = No Connector

X = MCX, right angle

S = MCX, straight (Standard)

A = SMA, straight

B = SMB, straight

C = SMC, straight

Frequency

I = ISM Band : 902 to 928MHz (Standard)

A = AMPS : 849 to 894MHz

M = MicroBurst : 824 to 894MHz

Cable Length

5 = 5m

6 = 6feet (standard)

11 = 11feet