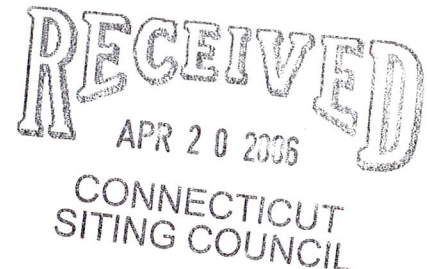


280 Trumbull Street
Hartford, CT 06103-3597
Main (860) 275-8200
Fax (860) 275-8299
kbaldwin@rc.com
Direct (860) 275-8345

ORIGINAL

April 19, 2006

Michael Perrone
Siting Analyst
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051



Re: **Cellco Partnership d/b/a Verizon Wireless
Wireless Telecommunications Facility
American School for the Deaf
139 North Main Street, West Hartford, CT**

Dear Mr. Perrone:

This letter will confirm our telephone conversation of earlier today regarding the existing Verizon Wireless telecommunications facility at the American School for the Deaf, 139 North Main Street, West Hartford, Connecticut.

As we discussed, this site was originally approved by the Siting Council in Petition No. 307 in 1993. In 2004, the Council approved a modification to the facility authorizing the replacement of three of the six cellular antennas with three PCS antennas (EM-VER-155-040708).

Recently, we discovered that the antenna height referenced in the 1993 petition was incorrect. In that petition and in subsequent filings with the Council, Verizon Wireless represented that the height of its antennas on the cupola were 62 feet for the cellular antennas and 66 feet for the PCS antennas. A more accurate survey of the cupola has recently been completed. The Verizon Wireless cellular antennas are actually at the 71 foot level and the PCS antennas are at the 76 foot level. These antennas have not moved since the 1993 approval. The height at which they are located was simply incorrectly stated in the original submission. Those same incorrect antenna heights were simply carried forward in subsequent filings.



Law Offices

BOSTON

HARTFORD

NEW LONDON

STAMFORD

WHITE PLAINS

NEW YORK CITY

SARASOTA

www.rc.com

HART1-1324791-1

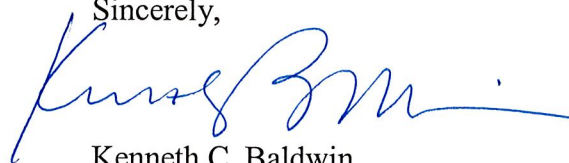
Michael Perrone
April 19, 2006
Page 2

In addition, since its July 8, 2004 Exempt Modification filing, Verizon Wireless has changed the PCS antenna that it intends to use at this location. The Council approved the installation of the BXA-185063-8CF antenna. Verizon Wireless installed the BXA-185085/12CF antenna.

So that the Council's records for this site are accurate, I have attached copies of the antenna specifications for the correct PCS antenna attached to the cupola and a revised power density calculation table that accurately reflects the height of the cellular and PCS antennas. As we discussed, because the antennas are higher than we had originally thought, the power density emission levels have actually decreased.

I apologize for this confusion and thank you for your assistance in clarifying these points. If you need any additional information from me regarding this facility, please do not hesitate to contact me.

Sincerely,



Kenneth C. Baldwin

KCB/kj

Copy to: Alexandria M. Carter
Maria Montrose



Slant +/- 45° Dual Polarized, Panel 85° / 18 dBi

BXA-185085/12CF

When ordering, replace "___" with connector type.

Mechanical specifications

Length	1840 mm	72.44 in
Width	154 mm	6.06 in
Depth	105 mm	4.13 in
4) Weight	5.897 kg	13 lbs
Wind Area		
Front	0.283 m ²	3.05 ft ²
Side	0.195 m ²	2.1 ft ²
Rated Wind Velocity (Safety factor 2.0)		
	>237 km/hr	>148 mph
Wind load @ 100 mph (161 km/hr)		
Front	460 N	103.4 lbs
Side	372 N	83.5 lbs

Antenna consisting of aluminum alloy with brass feedlines covered by a UV safe fiberglass radome.

Mounting & Downtilting:

Wall mounted or pole tower mount with mounting brackets.

Mounting bracket kit #26799997

Downtilt bracket kit #26799999

The downtilt bracket kit includes the mounting bracket kit.

Electrical specifications

Frequency Range	1850-1990 MHz
Impedance	50Ω
3) Connector	NE, E-DIN
1) VSWR	≤1.4:1
Polarization	Slant ± 45°
1) Isolation Between Ports	< -30 dB
1) Gain	18 dBi
2) Power Rating	250 W
1) Half Power Angle	
H-Plane	85°
E-Plane	5°
1) Electrical Downtilt	0°
1) Null Fill	5%
Lightning Protection	Direct Ground

Patented Dipole Design: U.S. Patent No. 6,597,324 B2

¹⁾ Typical Values

²⁾ Power Rating limited by connector only.

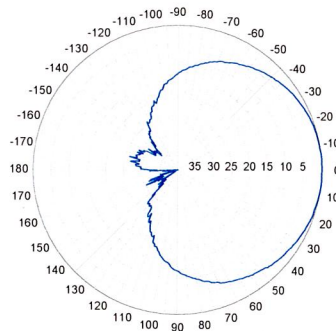
³⁾ NE indicates an elongated N Connector.

E-DIN indicates an elongated DIN Connector.

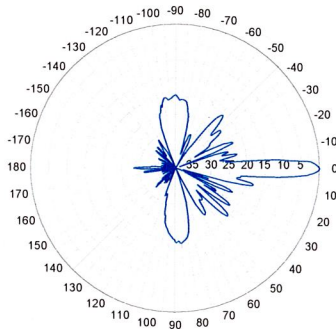
⁴⁾ The antenna weight listed above does not include the bracket weight.

Improvements to mechanical and/or electrical performance of the antenna may be made without notice.

Radiation-pattern¹⁾



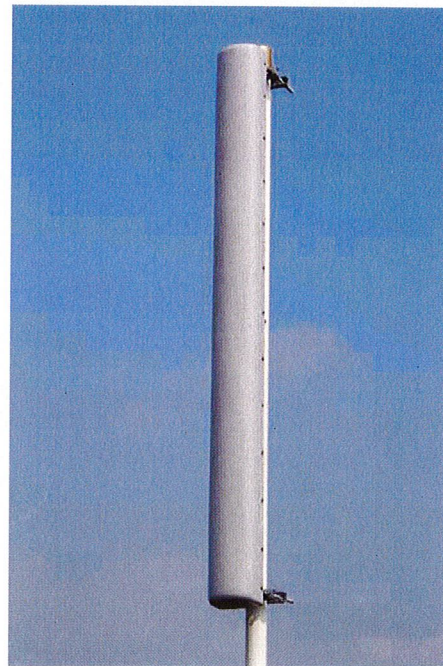
Horizontal



Vertical

Radiation patterns for all antennas are measured with the antenna mounted on a fiberglass pole.

Mounting on a metal pole will typically improve the Front-to-Back Ratio.



1850-1990 MHz



Amphenol Antel's Exclusive 3T (True Transmission Line Technology) Antenna Design:

- Watercut brass feedline assembly for consistent performance.
- Unique feedline design eliminates the need for conventional solder joints in the signal path.
- A non-collinear system with access to every radiating element for broad bandwidth and superior performance.
- Air as insulation for virtually no internal signal loss.

Every Amphenol Antel antenna is under a five-year limited warranty for repair or replacement.

Antenna available with center-fed connector only.

CF Denotes a Center-Fed Connector.

1850-1990 MHz



Revision Date: 6/29/04

General Power Density

Site Name: W Hartford W, CT
 Tower Height: 76 & 71 ft rad center

Operator	Operating Frequency (MHz)	Number of Trans.	ERP Per Trans (watts)	Total ERP (watts)	Distance to Target (feet)	Calculated Power Density (mW/cm ²)	Maximum Permissible Exposure (mW/cm ²)	Fraction of MPEP (%)
Verizon	875	9	200	1800	71	0.1284	0.5833	22.01%
Verizon PCS	1900	3	285	855	76	0.0532	1.0	5.32%
Total Percentage of Maximum Permissible Exposure								27.34%

*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992

MHz = Megahertz

mW/cm² = milliwatts per square centimeter

ERP = Effective Radiated Power

Absolute worst case scenario, maximum values used.





STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@po.state.ct.us

Web Site: www.ct.gov/csc

August 13, 2004

Kenneth C. Baldwin, Esq.
Robinson & Cole LLP
280 Trumbull Street
Hartford, CT 06103-3597

RE: **EM-VER-155-040708** – Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 139 North Main Street, West Hartford, Connecticut.

Dear Attorney Baldwin:

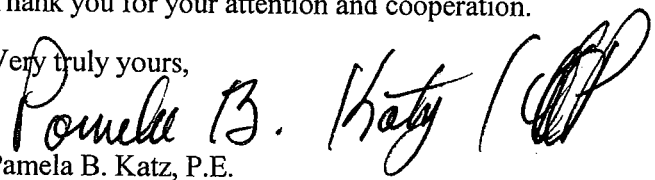
At a public meeting held on August 12, 2004, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated July 8, 2004, including the placement of all necessary equipment and shelters within the tower compound. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

Thank you for your attention and cooperation.

Very truly yours,


Pamela B. Katz, P.E.

Chairman

PBK/cm

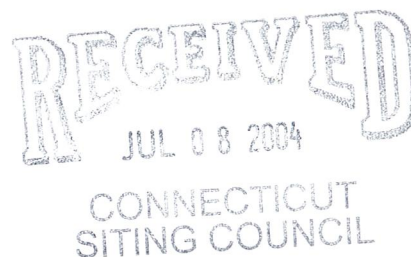
c: Honorable Jonathan Harris, Mayor, Town of West Hartford
Mila Limson, Town Planner, Town of West Hartford

280 Trumbull Street
Hartford, CT 06103-3597
Main (860) 275-8200
Fax (860) 275-8299
kbaldwin@rc.com
Direct (860) 275-8345

July 8, 2004

Via Hand Delivery

S. Derek Phelps
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051



Re: **Notice of Exempt Modification – Antenna Swap
American School for the Deaf, 139 North Main Street
Telecommunications Facility
West Hartford, Connecticut**

Dear Mr. Phelps:

Cellco Partnership d/b/a Verizon Wireless (“Cellco”) currently maintains a wireless telecommunications facility at the American School for the Deaf, 139 North Main Street in West Hartford. This facility consists of six (6) panel-type cellular antennas attached to the building cupola; three antennas at 62 feet above ground level (“AGL”) and three antennas at 66 feet AGL. Equipment associated with the antenna is located inside the school building.

The Connecticut Siting Council (“the Council”) approved this facility on September 23, 1993, in Petition No. 307. Cellco now intends to modify its facility by replacing the existing antennas with three (3) new cellular antennas at 62 feet AGL and three (3) PCS antennas at 66 feet AGL. Attached behind Tab 1 are specifications for the existing cellular antennas and the proposed cellular and PCS antennas for the North Main Street facility.

Please accept this letter as notification pursuant to R.C.S.A. § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to West Hartford Town Manager, Barry M. Feldman.

As the Council knows, on May 23, 2003, Cellco acquired, from Northcoast Communications, a license to provide PCS service throughout Connecticut. The



Law Offices

BOSTON

HARTFORD

NEW LONDON

STAMFORD

GREENWICH

NEW YORK

SARASOTA

www.rc.com

ROBINSON & COLE_{LLP}

S. Derek Phelps
July 8, 2004
Page 2

proposed modifications to the North Main Street facility will allow Cellco to provide its customers in the West Hartford area with enhanced wireless voice and data services.

The planned modifications to the North Main Street facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

1. The proposed modifications will not result in any increase in the overall height of the existing structure. Cellco's replacement antennas will be attached to the building cupola at the same height and location as the existing antennas.
2. The proposed modifications will not affect associated equipment areas and will not require the extension of the site boundaries.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more.
4. The proposed modifications will not result in radio frequency (RF) power density levels at the facility that exceed the Federal Communications Commission (FCC) adopted safety standard. Attached behind Tab 2 is a Power Density Calculation Table.

For the foregoing reasons, Cellco respectfully submits that the proposed modifications to the above-referenced telecommunications facility constitute an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,



Kenneth C. Baldwin

KCB/kmd
Enclosures

cc: Barry M. Feldman, West Hartford Town Manager
Sandy M. Carter



Wideband 120° Sector Antennas

820-960 MHz

PD10188 10.5 dBd Gain AMPS/TACS
PD10189 13.5 dBd Gain AMPS/TACS

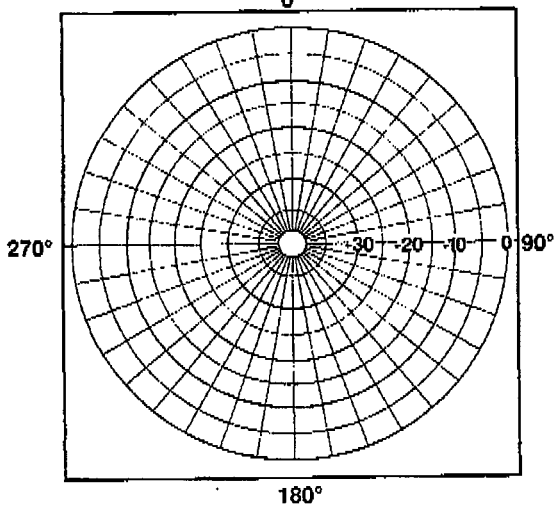
These panel antennas have been specifically designed for low density, three sector AMPS/TACS cell sites and where AMPS/TACS/GSM systems are combined into a single antenna. Their wide bandwidth allows their use for transmit, receive and full duplex applications. Both feature a side-fed dipole design and low loss air dielectric strip-line feed. All aluminum alloy components are irridited and all screws are double secured stainless steel to eliminate non-linear joints. A high impact, low loss, UV stabilized radome protects radiating elements from environmental hazards.

- **Slim profile** Aesthetically pleasing, can be painted to blend with architecture.*
- **Weathertight radome** Protects radiating elements from environment, minimizes pattern distortion due to ice build-up.
- **Irridited components** Inhibits corrosion.

*Contact our Sales Engineering department for painting instructions.

HORIZONTAL PATTERN

□ PD10188 and PD10189
 0°



Patents Pending

CELWAVE 
 DIVISION OF RADIO FREQUENCY SYSTEMS

Route 79, Marlboro, NJ 07746 • Tel. (908)462-1880 • (800)321-4700 • FAX (908)462-6919

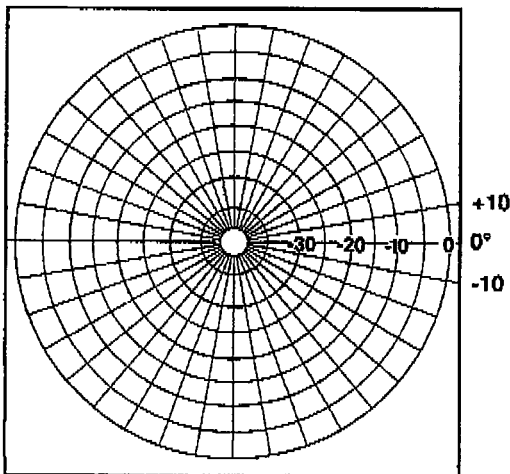
Wideband 120° Sector Antennas

ELECTRICAL SPECIFICATIONS	PD10188	PD10189
Frequency Range - MHz	820-960	820-960
Gain - dBd	10.5	13.5
Bandwidth - MHz for 1.5:1 VSWR	140	140
Horizontal Beamwidth 1/2 Power Points	120°	120°
Vertical Beamwidth 1/2 Power Points	14°	7°
Maximum Power Input - Watts	500	500
Front-to-Back Ratio - dBd	20	20
Lighting Protection	Direct Ground	Direct Ground
Termination - Direct	N-female	N-female

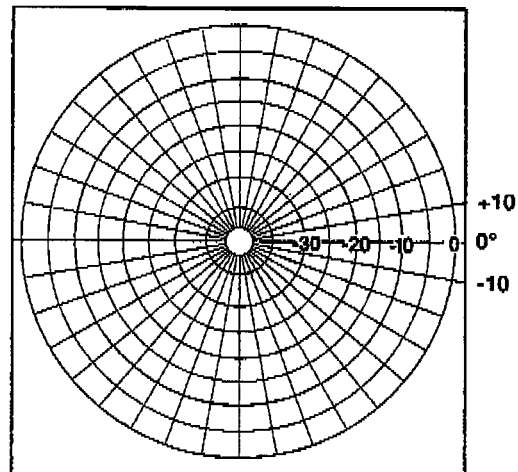
Note: All VSWR data referenced to 50 Ohms.

MECHANICAL SPECIFICATIONS	PD10188	PD10189
Width - in. (mm)	7.625 (194)	7.625 (194)
Height - in. (mm)	48.5 (1232)	98 (2489)
Depth - in. (mm)	5.0 (127)	5.0 (127)
Weight - lbs. (kg)	22 (10)	46 (20.8)
Radiating Element Material	Irridited Aluminum Alloy	Irridited Aluminum Alloy
Radome Material	UV Stabilized High Impact ABS Plastic	UV Stabilized High Impact ABS Plastic
Reflector Material	5052-H32 Irridited Aluminum	5052-H32 Irridited Aluminum
Wind Loading Area Flat Plate Equivalent - ft. ² (m ²)	2.57 (.239)	5.19 (.482)
Rated Wind Velocity - mph (km/hr)	100 (161)	100 (161)
Lateral Thrust at 100 mph - lbs. (kg)	68.5 (31.1)	138.4 (62.8)
Torsional Moment at 100 mph w/std. Mounting - ft./lbs (m/kg)	15.87 (2.19)	32.06 (4.43)
Mounting Hardware - Supplied	PD1253 Clamp Set Fits Support Pipe 1-3/4 in. (44 mm) to 4 in. (102 mm) Outer Diameter	
Shipping Mode	UPS	Common Carrier or UPS (Must Specify "Unassembled" for UPS)

VERTICAL PATTERN PD10188



VERTICAL PATTERN PD10189



CELWAVE 
DIVISION OF RADIO FREQUENCY SYSTEMS

Route 79, Marlboro, NJ 07746 • Tel. (908)462-1880 • (800)321-4700 • FAX (908)462-6919

Slant +/- 45° Dual Polarized, Panel 90° / 11 dBd

BXA-80090/4CF

When ordering, replace "___" with connector type.

Mechanical specifications

Length	1205 mm	47.4 in
Width	205 mm	8.1 in
Depth	145 mm	5.7 in
4) Weight	5.4 kg	12.0 lbs
Wind Area		
Front	0.25 m ²	2.66 ft ²
Side	0.17 m ²	1.88 ft ²
Rated Wind Velocity (Safety factor 2.0)		
	>679 km/hr	>422 mph
Wind load @ 100 mph (161 km/hr)		
Front	362 N	81.4 lbs
Side	264 N	59.4 lbs

Antenna consisting of aluminum alloy with brass feed-lines covered by a UV safe fiberglass radome.

Mounting & Downtilting:

Mounting brackets attach to a pipe diameter of Ø50-160 mm (2.0-6.3 in).

Mounting bracket kit #36210002

Downtilt bracket kit #36114003

Electrical specifications

Frequency Range	806-900 MHz*
Impedance	50Ω
3) Connector	NE, E-DIN
1) VSWR	≤1.4:1
Polarization	Slant ± 45°
1) Isolation Between Ports	< -30 dB
1) Gain	11 dBd
2) Power Rating	500 W
1) Half Power Angle	
H-Plane	90°
E-Plane	15°
1) Electrical Downtilt	0°
1) Null Fill	5%
Lightning Protection	Direct Ground

*Also available up to 960 MHz. Consult your sales director for more information.

Patented Dipole Design: U.S. Patent No. 6,608,600 B2

¹⁾ Typical Values

²⁾ Power Rating limited by connector only.

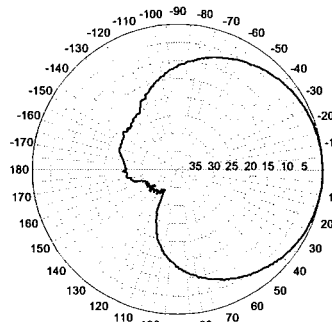
³⁾ NE indicates an elongated N Connector.

E-DIN indicates an elongated DIN Connector.

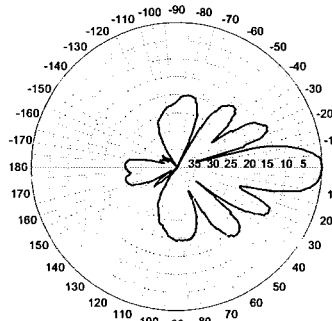
⁴⁾ The antenna weight listed above does not include the bracket weight.

Improvements to mechanical and/or electrical performance of the antenna may be made without notice.

Radiation-pattern¹⁾



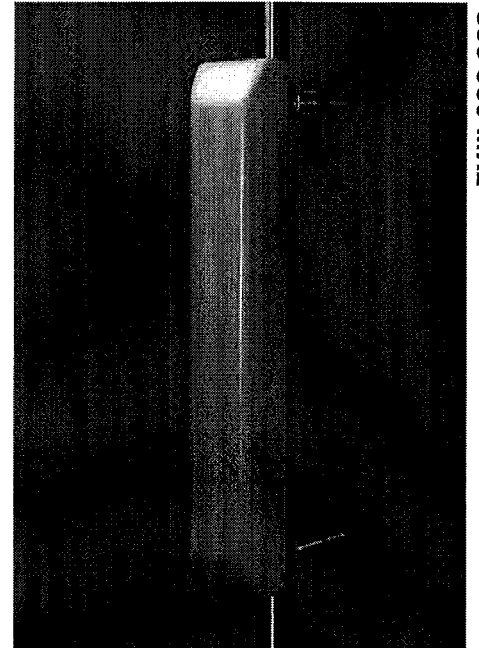
Horizontal



Vertical

Radiation patterns for all antennas are measured with the antenna mounted on a fiberglass pole.

Mounting on a metal pole will typically improve the Front-to-Back Ratio.



806-960 MHz



Amphenol Antel's Exclusive 3T (True Transmission Line Technology) Antenna Design:

- Watercut brass feedline assembly for consistent performance.
- Unique feedline design eliminates the need for conventional solder joints in the signal path.
- A non-collinear system with access to every radiating element for broad bandwidth and superior performance.
- Air as insulation for virtually no internal signal loss.

Every Amphenol Antel antenna is under a five-year limited warranty for repair or replacement.

Antenna available with center-fed connector only.

CF Denotes a Center-Fed Connector.

806-960 MHz

Amphenol Antel, Inc.
The Antenna Technology Company

Revision Date: 6/3/04

Slant +/- 45° Dual Polarized, Panel 63° / 18.5 dBi

Mechanical specifications

Length	1278 mm	50.32 in
Width	154 mm	6.06 in
Depth	80 mm	3.15 in
⁴⁾ Weight	4.5 kg	10.0 lbs
Wind Area		
Front	0.197 m ²	2.12 ft ²
Side	0.102 m ²	1.10 ft ²
Rated Wind Velocity (Safety factor 2.0)		
	>321.9 km/hr	>200 mph
Wind load @ 100 mph (161 km/hr)		
Front	298 N	67 lbs
Side	175 N	39 lbs

Antenna consisting of aluminum alloy with brass feedlines covered by a UV safe fiberglass radome.

Mounting & Downtilting:

Wall mounted or pole tower mount with mounting brackets.

Mounting bracket kit #26799999

Downtilt bracket kit #26799999

The downtilt bracket kit includes the mounting bracket kit.

Electrical specifications

Frequency Range	1850-1990 MHz
Impedance	50Ω
³⁾ Connector	NE, E-DIN
¹⁾ VSWR	≤1.4:1
Polarization	Slant ± 45°
¹⁾ Isolation Between Ports	< -30 dB
¹⁾ Gain	18.5 dBi
²⁾ Power Rating	250 W
¹⁾ Half Power Angle	
H-Plane	63°
E-Plane	7°
¹⁾ Electrical Downtilt	0°
¹⁾ Null Fill	5%
Lightning Protection	Direct Ground

Patented Dipole Design: U.S. Patent No. 6,597,324 B2

¹⁾ Typical Values

²⁾ Power Rating limited by connector only.

³⁾ NE indicates an elongated N Connector.

E-DIN indicates an elongated DIN Connector.

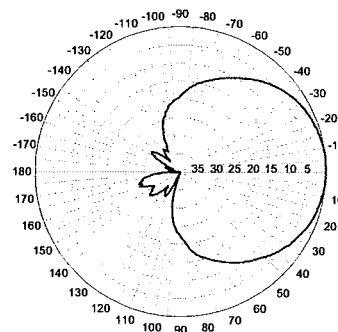
⁴⁾ The antenna weight listed above does not include the bracket weight.

Improvements to mechanical and/or electrical performance of the antenna may be made without notice.

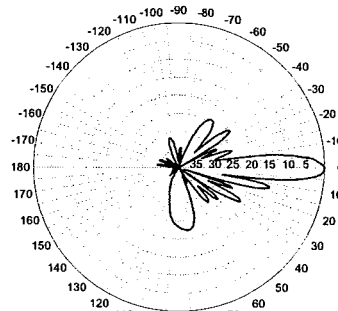
BXA-185063/8CF

When ordering, replace "___" with connector type.

Radiation-pattern¹⁾



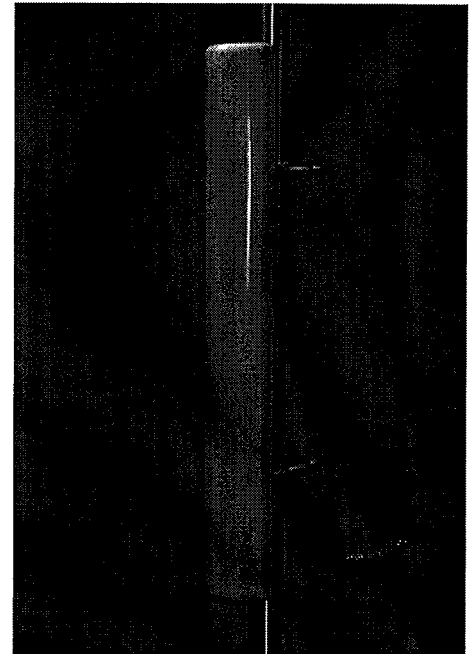
Horizontal



Vertical

Radiation patterns for all antennas are measured with the antenna mounted on a fiberglass pole.

Mounting on a metal pole will typically improve the Front-to-Back Ratio.



1850-1990 MHz



Amphenol Antel's Exclusive 3T (True Transmission Line Technology) Antenna Design:

- Watercut brass feedline assembly for consistent performance.
- Unique feedline design eliminates the need for conventional solder joints in the signal path.
- A non-collinear system with access to every radiating element for broad bandwidth and superior performance.
- Air as insulation for virtually no internal signal loss.

Every Amphenol Antel antenna is under a five-year limited warranty for repair or replacement.

Antenna available with center-fed connector only.

CF Denotes a Center-Fed Connector.

1850-1990 MHz

Amphenol Antel, Inc.
The Antenna Technology Company

Revision Date: 6/3/04

1300 Capital Drive Rockford, IL 61109 Toll-Free (888) 417-9562 Tel. (815) 399-0001
Fax. (815) 399-0156 Email: antel@antelinc.com www.antelinc.com

General Power Density

Site Name: West Hartford West , CT
 Tower Height: 62/66 ft rad center

Operator	Operating Frequency (MHz)	Number of Trans.	ERP Per Trans. (watts)	Total ERP (watts)	Distance to Target (feet)	Calculated Power Density (mW/cm ²)	Maximum Permissible Exposure* (mW/cm ²)	Fraction of MPE (%)
Verizon	869	9	200	1800	62	0.1684	0.5793	29.07%
Verizon	1900	3	200	600	66	0.0495	1	4.95%
Total Percentage of Maximum Permissible Exposure								34.02%

*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992

MHz = Megahertz
 mW/cm² = milliwatts per square centimeter
 ERP = Effective Radiated Power
 Absolute worst case scenario, maximum values used.

