

October 10, 2023

Via Electronic Mail

Melanie A. Bachman, Esq.
Executive Director/Staff Attorney
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Re: **Notice of Exempt Modification**
Temporary Telecommunications Facilities – 2023 Yale v. Harvard Football

Dear Attorney Bachman:

Pursuant to R.C.S.A. Section 16-50j-72(d) and previous similar filings, this letter will serve as notice that Cellco Partnership d/b/a Verizon Wireless (“Cellco”) intends to install two temporary wireless facilities (a/k/a “Cell on Wheels” or “COW”) for use during this year’s Yale v. Harvard football game scheduled for November 18, 2023.

COW No. 1 – 150 Yale Avenue, New Haven

Cellco intends to install COW No. 1 in a grassy area on the eastern side of the Yale Bowl foot stadium (the “Stadium”) on the property at 150 Yale Avenue. The COW will be a truck-mounted wireless facility with two retractable masts, one extending to a height of 61 feet above ground level (“AGL”) and another, extending to a height of 59 feet AGL. Cellco will attach two (2) spherical lens antennas, one (1) on each mast and both directed towards the Stadium and one (1) panel antenna directed toward Yale Avenue. Cellco will also install nine (9) remote radio heads (“RRHs”) on the COW trailer.

Included in Attachment 1 is a letter from Yale University authorizing the filing of this notice; a lease exhibit showing the COW location and antenna configuration; antenna and RRH specifications; and far field approximation tables, one for the “Stadium Side” of the COW and one for the “Street Side” of the COW, both demonstrating that the temporary facility will operate well within the FCC standard. Also included in Attachment 1 is a New Haven Assessor’s property map and property card for the 150 Yale Avenue parcel.

27992150-v1

Melanie A. Bachman, Esq.

October 10, 2023

Page 2

COW No. 2 – 40 Central Avenue, New Haven

Cellco intends to install a COW No. 2 in a grassy area on the southern side of an existing driveway, adjacent to athletic fields, at 40 Central Avenue. COW No. 2 will be a trailer-mounted wireless facility with a retractable mast extending to a height of 35 feet above ground level (“AGL”). Cellco will attach a total of nine (9) panel antenna, three (3) each at centerline heights of 36 feet; 33 feet and 30 feet AGL. Nine (9) RRHs will be installed three (3) with the antennas at the 30-foot level and six (6) on the COW trailer.

Included in Attachment 2 is a letter from Yale University authorizing the filing of this notice; a lease exhibit showing the COW location and antenna configuration; antenna and RRH specifications; and far field approximation tables for the frequencies Cellco intends to deploy at COW No. 2 demonstrating that the temporary facility will operate well within the FCC standard. Also attached is a New Haven Assessor’s property map and property card for the 40 Central Avenue parcel.

The proposed temporary telecommunications facilities satisfy the criteria set forth in R.C.S.A. Section 16-50j-72(d), as facilities that will provide temporary wireless service for an event of State-wide significance. The COWs will provide additional network capacity to accommodate increased wireless voice and data services needed during the event. Cellco expects that the COWs will be brought to the site immediately prior to the start of the event and will be removed immediately after the event.

In accordance with R.C.S.A. Section 16-50j-73, a copy of this filing has been sent to Mayor Justin Elicker, Laura Brown, Director of City Plan and Yale University. (See Attachment 3).

Based on the foregoing, Cellco respectfully requests acknowledgement of this notice for the installation of a temporary wireless facilities at the Property. Please feel free to contact me if you have any questions or need any additional information.

Sincerely,



Kenneth C. Baldwin

Attachments

Copy to:

Justin Elicker, Mayor
Laura Brown, Executive Director of City Plan
Yale University, Property Owner
Daniel Fitzpatrick, Verizon Wireless
Ziad Cheiban, RF Engineer

ATTACHMENT 1

YALE UNIVERSITY
150 Munson Street
New Haven, CT 06511

**RE: Cellco Partnership d/b/a Verizon Wireless; Proposed Temporary
Telecommunications Facility located at 150 Yale Avenue, New Haven, CT**

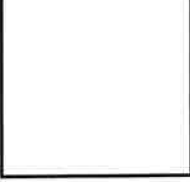
To Whom It May Concern:

Yale University is the owner of certain real property located in the City of New Haven at 150 Yale Avenue and identified as Map/Block/Lot 377/1079/00120 on the tax map of the City of New Haven ("Subject Property"). Yale University and Cellco Partnership have executed an agreement providing Cellco with a nonexclusive license to use a portion of the Subject Property for a temporary communications facility consisting of a cell on wheels, pursuant to the terms of the aforementioned agreement.

Sincerely,

YALE UNIVERSITY

By: Jenna Digitally signed
Name: by Jenna Milman
Title: Milman Date: 2023.10.06
Date: 13:20:27 -04'00'



CHECKED BY: JK

APPROVED BY: DPH

SUBMITTALS	
REV	DESCRIPTION
1	10/1/2020
2	10/1/2020
3	10/1/2020
4	10/1/2020
5	10/1/2020
6	10/1/2020
7	10/1/2020
8	10/1/2020
9	10/1/2020

SITE NAME:
YALE BOWL COW CT
2023

SITE ADDRESS:
150 YALE AVENUE
NEW HAVEN, CT 06515

SHEET TITLE
ELEVATION

SHEET NUMBER
L-2

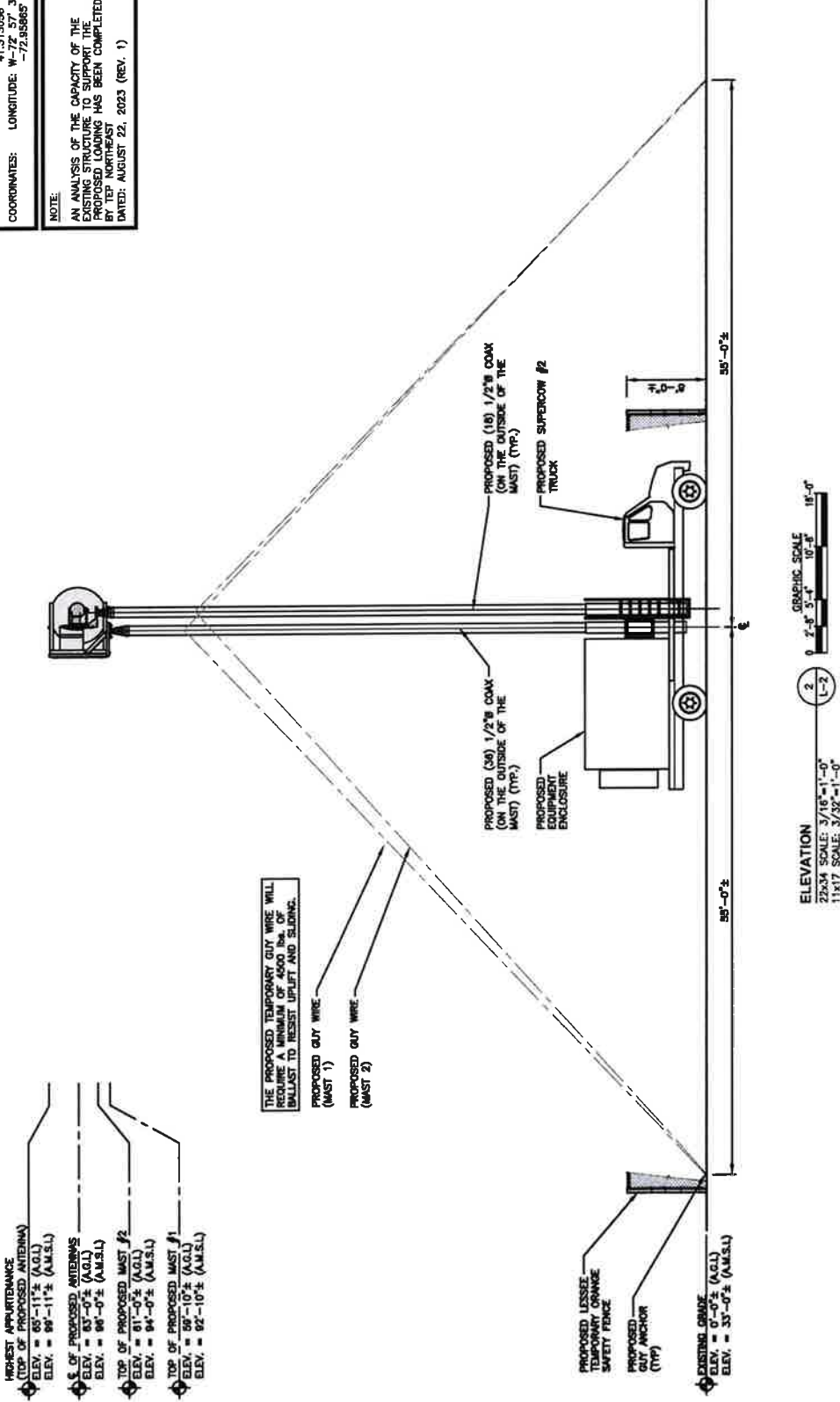
LEASE EXHIBIT

LEASE EXHIBIT:
THIS LEASE PLAN IS DIAGRAMMATIC IN NATURE
AND IS INTENDED TO PROVIDE GENERAL
INFORMATION REGARDING THE LOCATION AND
SIZE OF THE PROPOSED WIRELESS
COMMUNICATIONS FACILITY. THE SITE LAYOUT WILL
BE FINALIZED UPON COMPLETION OF SITE
SURVEY AND FACILITY DESIGN.

APPROXIMATE LATITUDE: N 41° 18' 42.00"
COORDINATES: 41.313036°
LONGITUDE: W-72° 57' 31.14"
-72.95865°

NOTE:
AN ANALYSIS OF THE CAPACITY OF THE
EXISTING STRUCTURE TO SUPPORT THE
PROPOSED LOADING HAS BEEN COMPLETED
BY TEP NORTHEAST
DATED: AUGUST 22, 2023 (REV. 1)

NOTE:
THIS IS A "NO DIG" SITE. NO
EXCAVATIONS ARE PERMITTED.



GRAPHIC SCALE
0 2'-0" 5'-0" 10'-0" 15'-0"

ELEVATION
2x/34 SCALE: 3/16"=1'-0"
11x17 SCALE: 3/32"=1'-0"

MS-12.6DB180

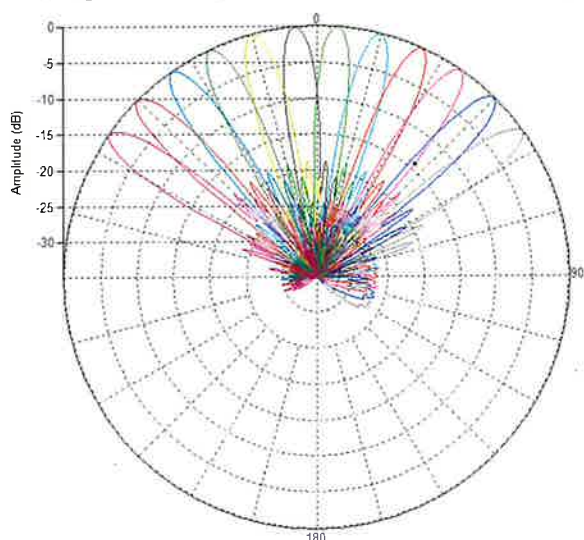
Multi-Beam Dual Band Spherical Lens Antenna: 6 independent low frequency (698-960MHz) cross-polarized beams and 12 independent high-frequency (1695-2690MHz) cross-polarized beams, with 0-15° tilt for each 20° sector and 2X2 MIMO support. Sector consists of 1 low-band beam and 2 high-band beams.

External RET Controller MS-EXT-RET-12.6 Option available

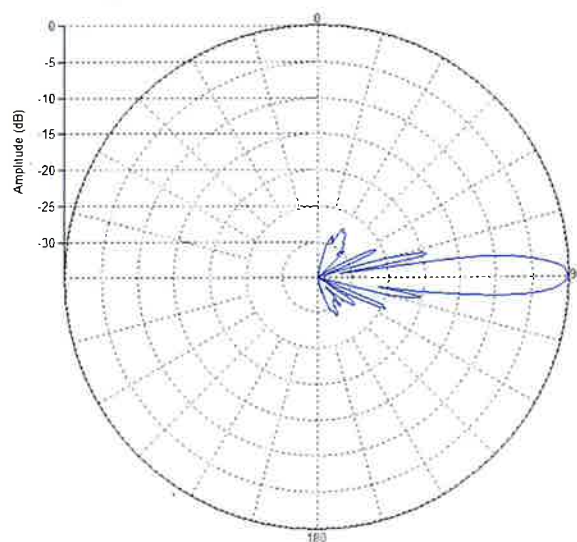


PATTERN RESULTS:

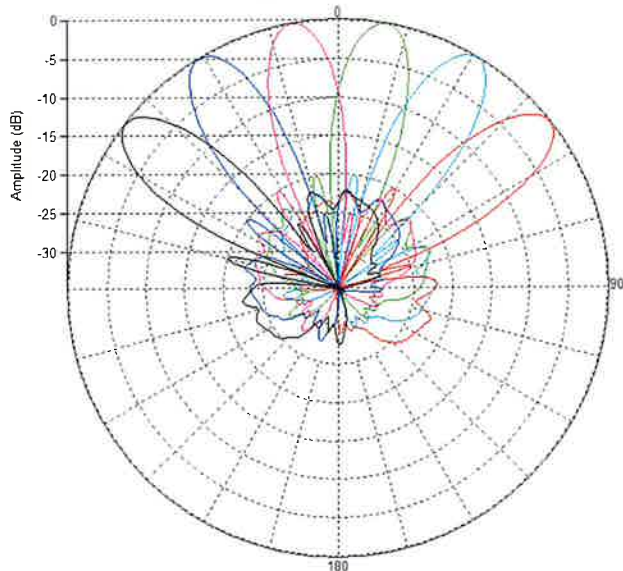
High-Band Horizontal Pattern (1.80GHz)



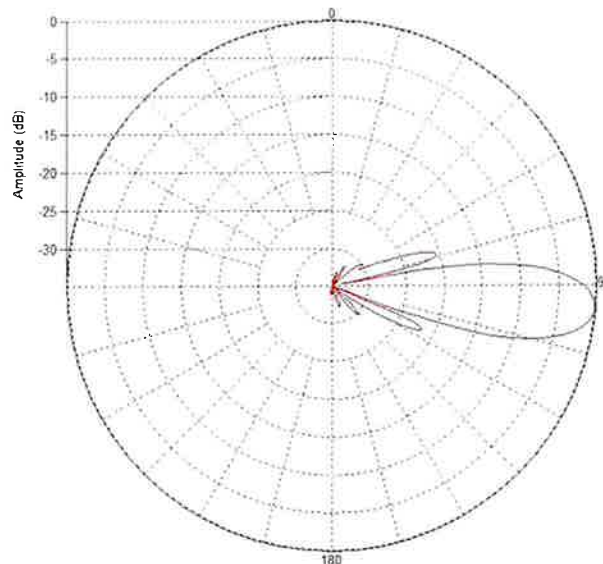
High-Band Vertical pattern (1.80GHz)



Low-Band Horizontal Pattern (0.85GHz)



Low-Band Vertical Pattern (0.85GHz)



TECHNICAL SPECIFICATIONS PER BEAM

Frequency	698-960 MHz	1695-2690 MHz
Gain	20.5dBi	27.5dBi
VSWR	<1.5:1	<1.5:1
Polarization	Dual Slant ±45°	Dual Slant ±45°
Horizontal Coverage	120°	120°
Horizontal Beamwidth (10dB level)	20°	10°
Horizontal Beamwidth (3dB level)	12°	6°
Vertical Beamwidth (10dB level)	20°	10°
Vertical Beamwidth (3dB level)	12°	6°
Beam Cross-over	10dB typical	10dB typical
Total Number of Beams	6	12
Manual Adjustable Tilt per 20° sector (each sector having 2 high-band beams and 1 low-band beam)	5° to 20°	0° to 15°
First Sidelobe level	<-15dB	<-16dB
Front to Back Ratio	>28dB	>28dB
Isolation Port to Port - Polarization	>28dB	>28dB
Isolation Port to Port - Beam	>26dB	>28dB
Power Rating	250W per port	250W per port
Total Applied Power	≤ 2.5KWatts	
Intermodulation	<-153dBc	<-153dBc
Impedance	50 ohm	50 ohm
Connector Quantity and Type	12 X 4.3-10 female	24 X 4.3-10 female

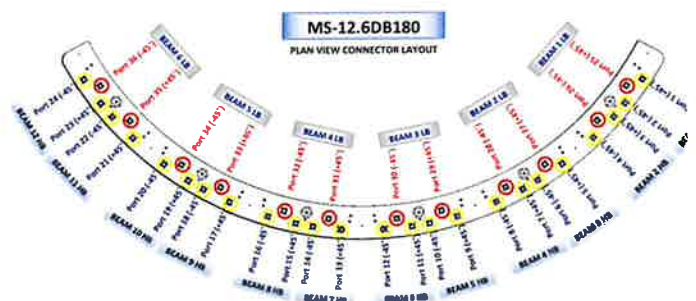
MECHANICAL DATA

Spherical Lens diameter:	180cm/70inch
Antenna dimensions:	187.1 X 207 X 204.4 cm 73.7 X 81.5 X 80.5 inch
Dimensions (H x W x D)	
Antenna Weight	247.6 kg 545.9 lbs
Radome Material	Fiber Glass
Adjustable Clamps	
Mounting	Compatible pipe diameter: 6.1 – 11.4 cm 2.4 – 4.5 inch

ENVIRONMENTAL RATINGS

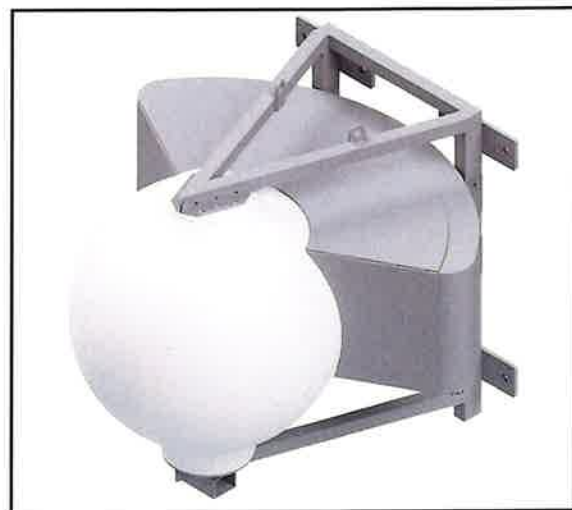
Humidity	95% RH @ +30°C
Temperature	-40°C to +70°C
Wind load @ 150 km/h	N/lbf Frontal: 1892/425 Lateral: 2053/462

CONNECTOR LAYOUT:



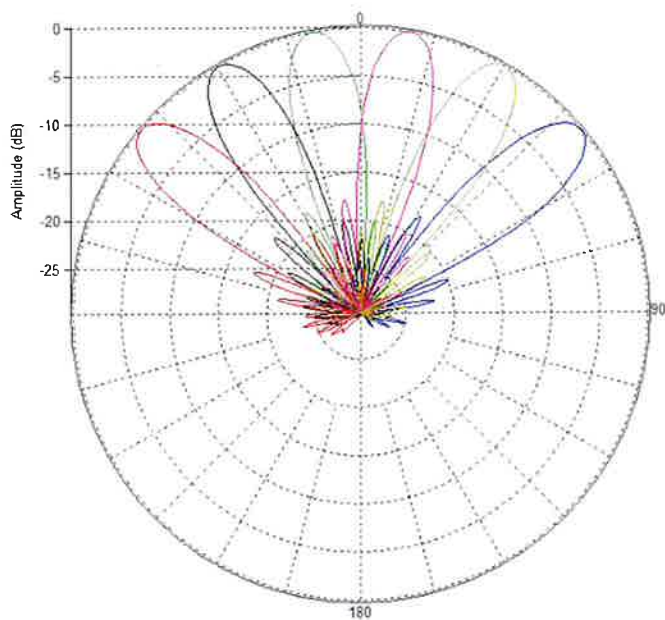
MS-6C45

Multi-Beam Spherical Lens Antenna: 6 independent C-Band (3.7 - 4.2GHz) cross-polarized beams, with factory set 0-15° tilt for each beam and 2X2 MIMO support per beam.

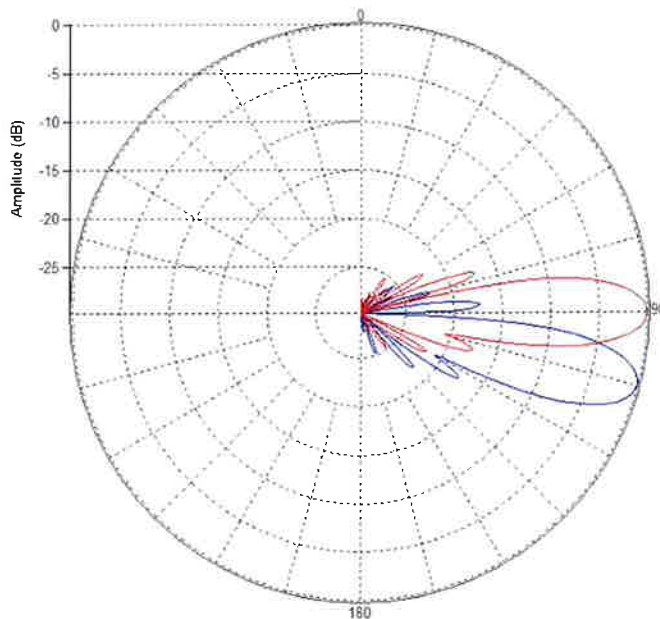


PATTERN RESULTS:

High-Band Horizontal Pattern (3.95GHz)



High-Band Vertical pattern (3.95GHz) tilt 0 & 15°



TECHNICAL SPECIFICATIONS

Frequency 3.7 – 4.2 GHz

Gain 22.6dBi

VSWR <1.5:1

Polarization Dual Slant $\pm 45^\circ$

Horizontal Coverage 120°

Horizontal Beamwidth (10dB level) 19°

Horizontal Beamwidth (3dB level) 11.5°

Vertical Beamwidth (10dB level) 19°

Vertical Beamwidth (3dB level) 11.5°

Beam Cross-over 10dB typical

Total Number of Beams 6

Factory set tilt per Beam 0° to 15°

First Sidelobe level <-16dB

Front to Back Ratio >28dB

Isolation Port to Port - Polarization >28dB

Isolation Port to Port - Beam >28dB

Power Rating 150W per port

Intermodulation <-153dBc

Impedance 50 ohm

Connector Quantity and Type 12 X 4.3-10 female

MECHANICAL DATA

Dimensions (H x W x D)

Spherical Lens diameter:
45cm/18inch

Antenna dimensions:
61.7 x 72.8 x 67.8 cm
24.3 x 28.7 x 26.7 inch

Antenna Weight

35 kg
77 lbs

Radome Material

Fiber Glass

Mounting

Adjustable clamps
Compatible pipe diameter:
6.1 – 11.4 cm
2.4 – 4.5 inch

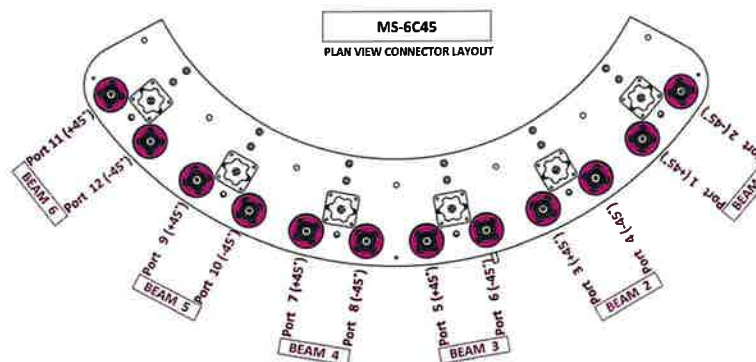
ENVIRONMENTAL RATINGS

Humidity 95% RH @ +30°C

Temperature -40°C to +70°C

Wind load @ 150m/hr
[N/lbf]
Frontal: 263/95
Lateral: 197/44

CONNECTOR LAYOUT:





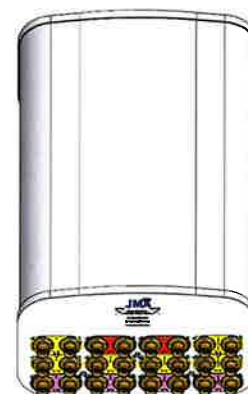
DX24FRO265-04

NWAV™ 2F Panel Antenna

24-port panel antenna from 698-4200 MHz

2F panel antenna, 24 ports: 4 ports 698-960, 12 ports 1695-2690 MHz, 8 ports 3400-4200 MHz

- X-Pol, Small Cell, panel antenna
- Suitable for pole or building mount
- 4x4 MIMO for PCS, AWS, WCS, and BRS
- 4x4 MIMO for Low-Band
- 4x4 MIMO for CBRS and C-Band



Electrical specification (min/max)	Ports 1, 2, 3, 4			Ports 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16				
Frequency bands, MHz	698-798	824-894	880-960	1695-1880	1850-1990	1920-2180	2300-2400	2496-2690
Polarization	$\pm 45^\circ$			$\pm 45^\circ$				
Average gain, dBi	7	7.1	7.4	9.8	10.1	10.8	11.1	11.7
Horizontal beamwidth (HBW), degrees ¹	72	74	75	66	65	62	59	57
Vertical beamwidth (VBW), degrees ¹	78	73	65	46	44	39	37	33
Fixed electrical downtilt (EDT), degrees	0			4				
Cross-polar isolation, port-to-port, dB ¹	25			25				
Max VSWR / return loss, dB	1.5:1 / -14.0			1.5:1 / -14.0				
Max PIM (3rd order, 2x20W) dBc	-153			-153				
Maximum input power port, watts	100			150				

Electrical specification (min/max)	Ports 17, 18, 19, 20, 21, 22, 23, 24	
Frequency bands, MHz	3400-3700	3700-4200
Polarization	$\pm 45^\circ$	$\pm 45^\circ$
Gain, dBi	14	13.7
Horizontal beamwidth (HBW), degrees ¹	52	56
Vertical beamwidth (VBW), degrees ¹	21	22
Fixed electrical downtilt (EDT), degrees	0	0
Cross-polar isolation, port-to-port, dB ¹	22	25
Max VSWR / return loss, dB	1.5:1 / -14.0	1.5:1 / -14.0
Max PIM (3rd order, 2x20W) dBc	N/A	-145
Maximum input power, watts	100	

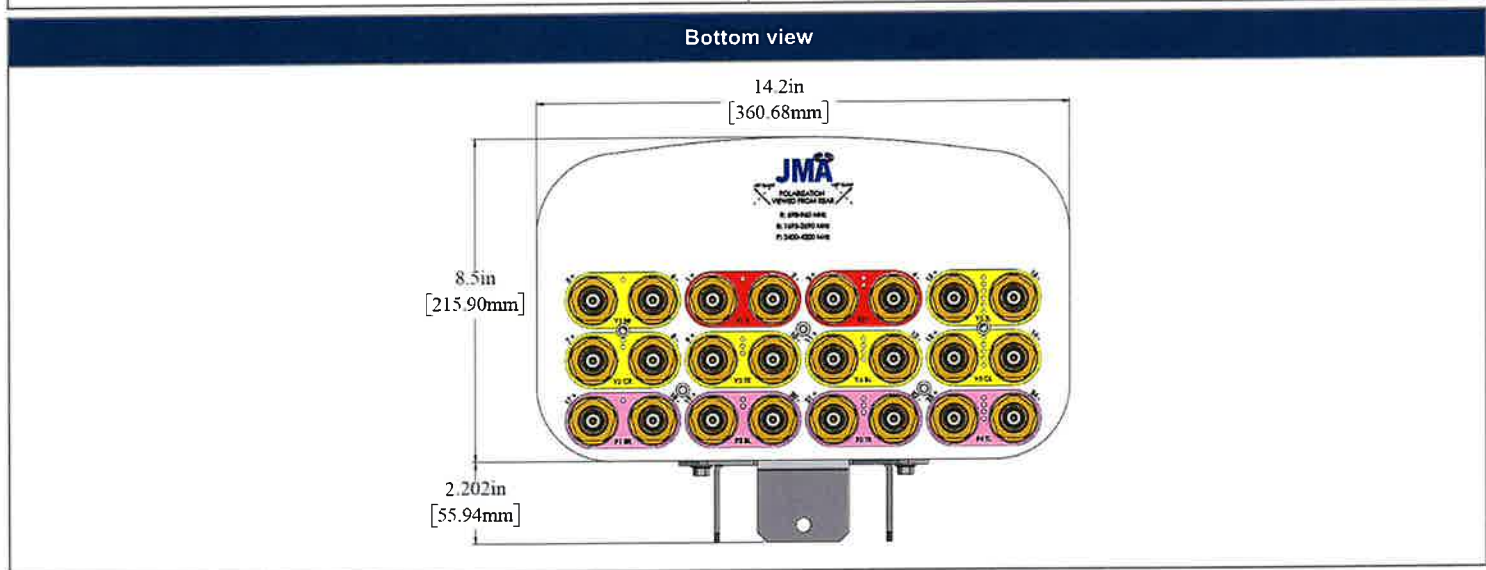
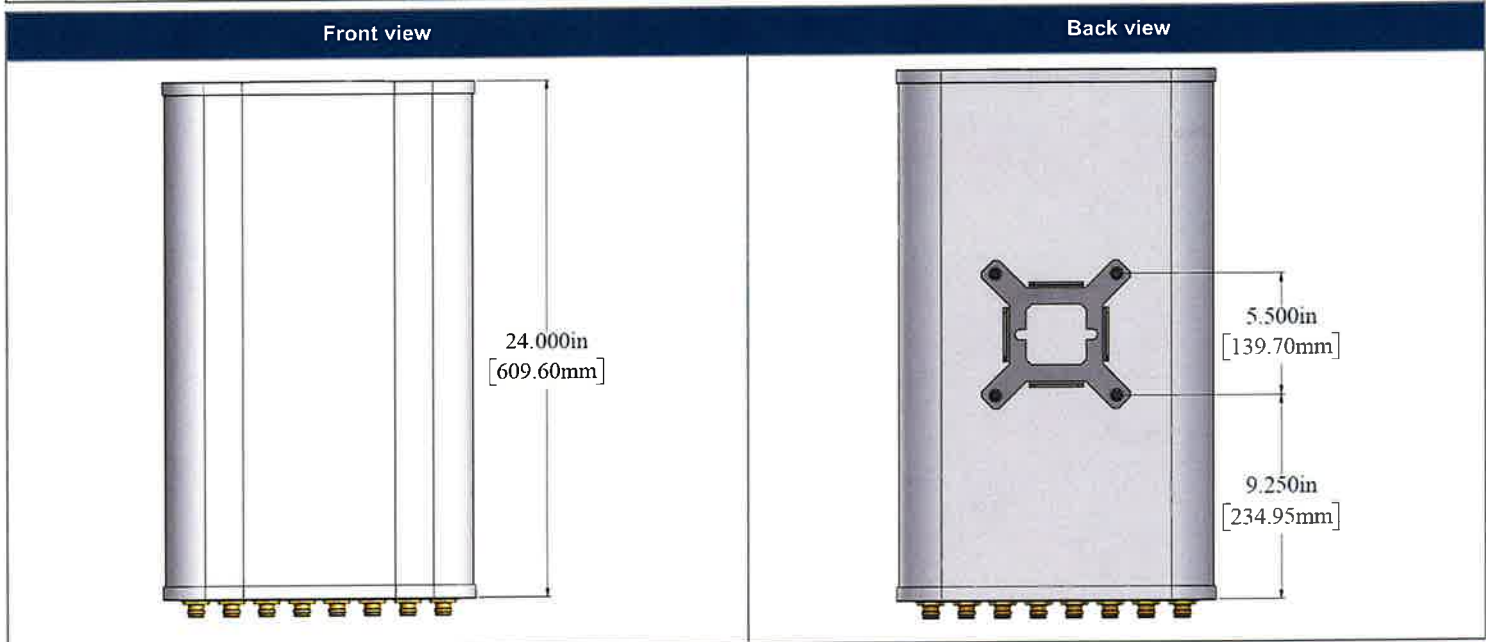
¹ Typical value over frequency.



DX24FRO265-04

NWAV™ 2F Panel Antenna

Mechanical specifications	
Dimensions height/width/depth, inches (mm)	24/ 14.2/ 8.5 (610/ 360.7/ 215.9)
No. of RF input ports, connector type, and location	24 x 4,3-10 female, back
RF connector torque	96 lbf·in (10.85 N·m or 8 lbf·ft)
Net antenna weight, lb (kg)	22 (10.0)
Weight with supplied pipe mount bracket, lb (kg)	27.1 (12.3)
Shipping weight, lb (kg)	33 (15.0)
Rated wind survival speed, mph (km/h)	150 (241)
Frontal wind loading @ 150 km/h, lbf (N)	22.3 (99.4)





DX24FRO265-04

NWAV™ 2F Panel Antenna

Array topology

12 sets of radiating arrays

R1: 698-894 MHz
R2: 698-894 MHz
Y1: 1695-2690 MHz
Y2: 1695-2690 MHz
Y3: 1695-2690 MHz
Y4: 1695-2690 MHz
Y5: 1695-2690 MHz
Y6: 1695-2690 MHz
P1: 3400-4200 MHz
P2: 3400-4200 MHz
P3: 3400-4200 MHz
P4: 3400-4200 MHz

Band	RF port
698-894	1-4
1695-2690	5-16
3400-4200	17-24

Ordering information	
Antenna model	Description
DX24FRO265-04	2F panel antenna, 24 ports, (4) 698–960 zero degrees EDT, (12) 1695-2690 four degrees EDT, (8) CBRS/C-Band zero degrees EDT
Mounting kit (included)	91900324 articulating bracket with X- and Y-axis adjustments and rotation

SAMSUNG

700/850MHZ MICRO RADIO

DUAL-BAND AND LOW POWER FOR
MICRO COVERAGE

Samsung offers a radio with future proof capabilities, which can efficiently grow an operator's network deployment. The Samsung 700/850MHz 4T4R micro radio enables the mobile operator to fill coverage holes cost-effectively in places that are hard to cover by macro radios.

Model Code

RF4442d-13A (DC), RF4442d-13B (AC)



Homepage
samsungnetworks.com

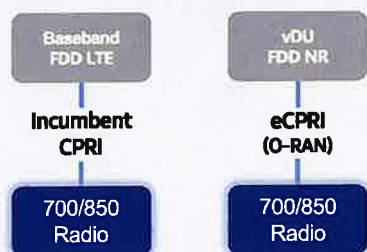


Youtube
www.youtube.com/samsung5g

Points of Differentiation

Continuous Migration

Samsung's 700/850MHz micro radio can support each incumbent CPRI interface as well as advanced eCPRI interfaces. This feature provides installable options for both legacy LTE networks and added NR networks.



Flexible Installation

Samsung's micro radio allows for a flexible installation methodology for different network environments.

Various antenna options:

- ① Simple 1 box configuration with clip-on antenna
- ② Separated configuration with 3rd-party antennas

The unit is installable in a shroud with other network devices.



Selective Power Combination

Samsung's 700/850MHz micro radio offers wideband operation and enables power pulling functionality with 700MHz and 850MHz. This gives more flexibility with power allocation according to regional frequency availability.

It offers selective output power combinations with dual-band, such as ① 40W only in 700MHz, ② 40W only in 850MHz and ③ 40W in 700+850MHz.



Various Input Power

Samsung supports both DC and AC power options for micro radios with the same size and weight. This gives advantages in terms of site cleaning because it needs no additional power converters.

DC input power

AC input power



Technical Specifications

Item	Specification
Tech	LTE / NR
Brand	B13(700MHz), B5(850MHz)
Frequency Band	DL: 746 – 756MHz, UL: 777 – 787MHz DL: 869 – 894MHz, UL: 824 – 849MHz
RF Power	(B13+B5) 4 × 10W
IBW/OBW	(B13) 10MHz / 10MHz (B5) 25MHz / 25MHz
Installation	Pole, Wall
Size/Weight	11.9 x 13.8 x 5.4 inch (14.5L) 34.2 lb



SAMSUNG

Public Usage

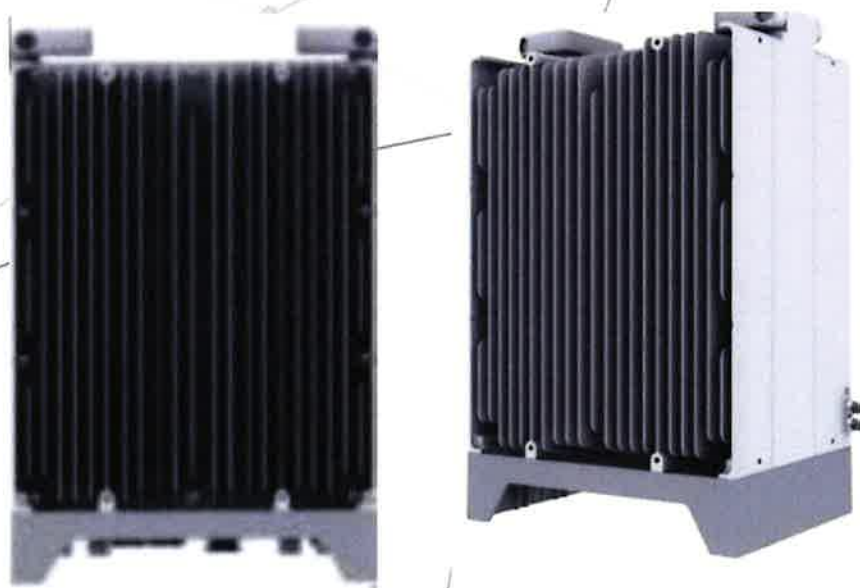
SAMSUNG

Medium AWS/PCS RRU

4G Service Expansion and Rapid 5G Migration

Samsung's RF4402d-D1A is a 5G NR-ready, compact remote Radio Unit (RU) designed for high-density deployments that require rapid deployment and installation flexibility.

Model Code : RF4402d-D1A



Points of Differentiation

Upgraded to Enhance Product

Samsung Medium Power RRU supports eCPRI interface, thus, it can be used as 5G RU in the future.

To provide 5G service, operators only need to update software since the hardware is already ready.



OPEX Reduction

AC/DC converter can be easily installed. AC/DC converter can be mounted by RRU's side.(front/side installation)

Operators can reduce their renting cost as AC/DC converter can be directly installed on the RRU without using footprint.

AC/DC Converter

Front Installation



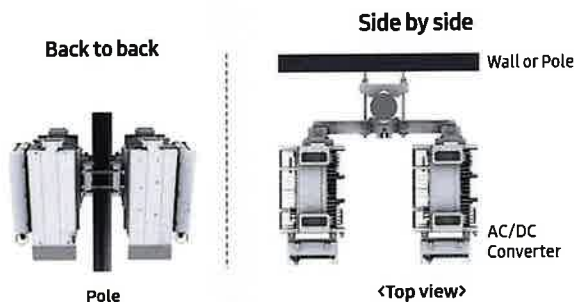
Side Installation



Easy Installation

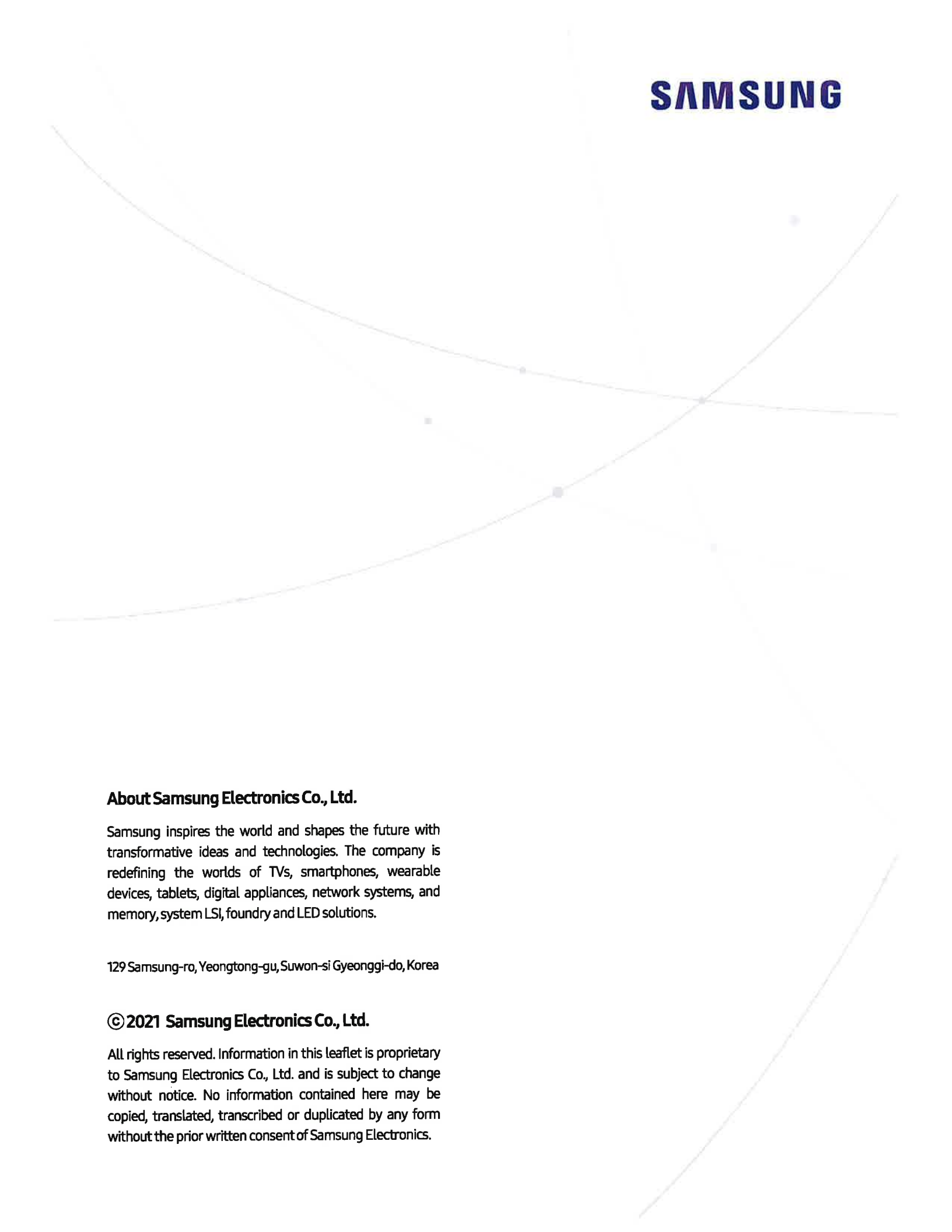
A single worker can very easily install this product in various place such as Wall, Pole, Tower with its small volume.

It is possible to install 2 or 3 products by using 'Back to Back' method or 'Side by Side' method. Operators can effectively use their installation space.



Technical Specifications

Item	Specification
Tech	LTE/5G NR ready
Band	Band 66/Band 2
Frequency Band	DL(2,110-2,180MHz)/UL(1,710-1,780MHz) DL(1,930-1,990MHz)/UL(1,850-1,910MHz)
RF Chain	4T4R/2T4R/2T2R (x2, dual-band)
IBW/OBW	70 MHz (B66) +60MHz (B2)
Size / Weight	RRU : 11.8 x 8.9 x 15 inches (25.6L), 62.8 lbs AC/DC : 13.3 x 6.8 x 3.1 inches (4.7L), 12.8 lbs RRH+AC/DC : 11.8 x 13.2 x 15 inches (38.2L), 75.6 lbs
Installation Type	Pole/Wall/Tower (back to back, Side by side)
Output Power	Total 160 W
Input Power	- 48V DC 15A @ 100 V AC (AC/DC converter)
Operating Temp	-40 - 55° (w/o solar load)
Cooling	Natural Convection



SAMSUNG

About Samsung Electronics Co., Ltd.

Samsung inspires the world and shapes the future with transformative ideas and technologies. The company is redefining the worlds of TVs, smartphones, wearable devices, tablets, digital appliances, network systems, and memory, system LSI, foundry and LED solutions.

129 Samsung-ro, Yeongtong-gu, Suwon-si Gyeonggi-do, Korea

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Specifications

The table below lists the main specifications of the RRH.

Table 1. RRH Specifications

Item	RF4402d-D1A
Technology	3GPP Rel. 13
Duplex type	FDD
Operating Frequency	Band66 (2,100 MHz) DL: 2,110 to 2,180 MHz UL: 1,710 to 1,780 MHz Band2 (1,900 MHz) DL: 1,930 to 1,990 MHz UL: 1,850 to 1,910 MHz
Channel Bandwidth	5 MHz, 10 MHz, 15 MHz, 20 MHz 2Tx2Rx/2Tx4Rx/4Tx4Rx per RRH
Input Voltage	-48 V DC (-38~-57 V DC)
Input Current	17 A @ - 48 V DC
Dimension (W x D x H)	11.81 in.(300 mm) x 9.25 in.(235 mm) x 14.96 in.(380 mm)
Weight (kg)	Approx. 28.5
Operating Temperature (Ambient)	-40~55°C (without solar load)
Operating Humidity	5~100 % RH, condensing, not to exceed 30 g/m ³ absolute humidity
Altitude (m)	-60~1,800 (Telcordia GR-63-CORE)
Earthquake	Telcordia Earthquake Risk Zone4 (Telcordia GR-63-CORE)
Vibration	Office Vibration (Section 4.4.4) Transportation Vibration (Section 4.4.5)
Noise	Fanless (natural convection cooling)
EMC	FCC Title 47 CFR Part 15
Safety	UL 60950-1 2nd Ed
RF	FCC Title 47 CFR Part 27

System View and Interface

RRH View

The view of RRH is as follows.

Figure 1. *RRH View*

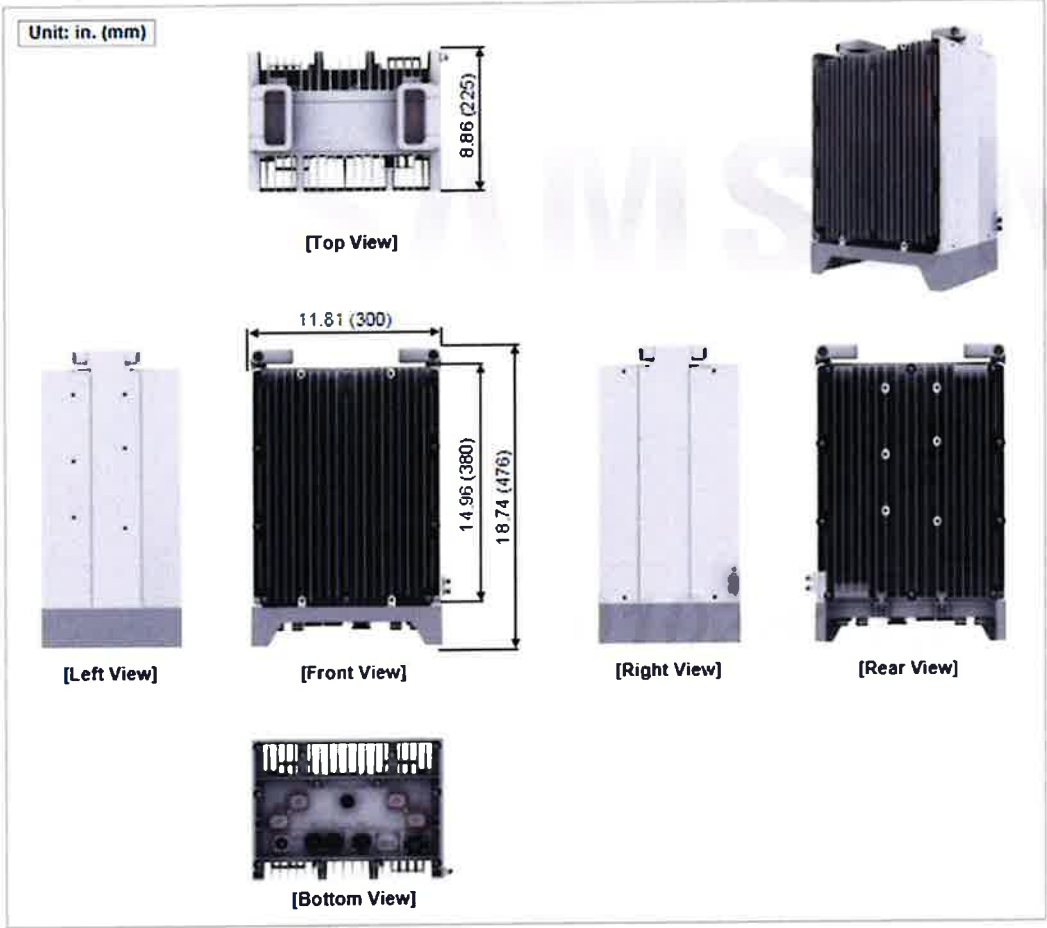


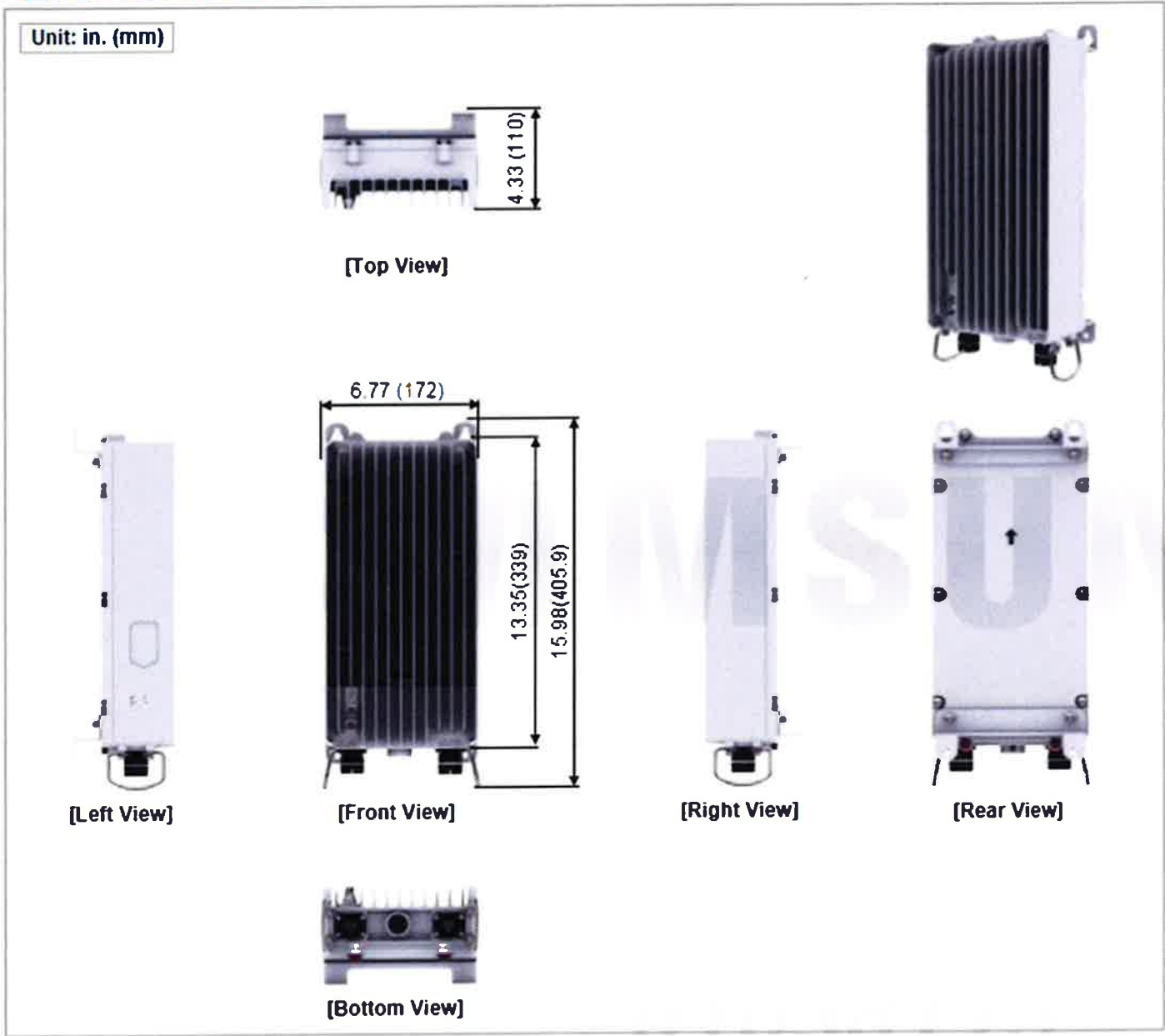
Table 2. AC/DC Converter Specifications

Item	OPU01-48A
Input Current	15 A @ 100 V AC
Dimension (W x D x H)	13.34 in.(339 mm) x 3.14 in.(80 mm) x 6.77 in.(172 mm)
Weight (kg)	Approx. 5.6

AC/DC Converter View

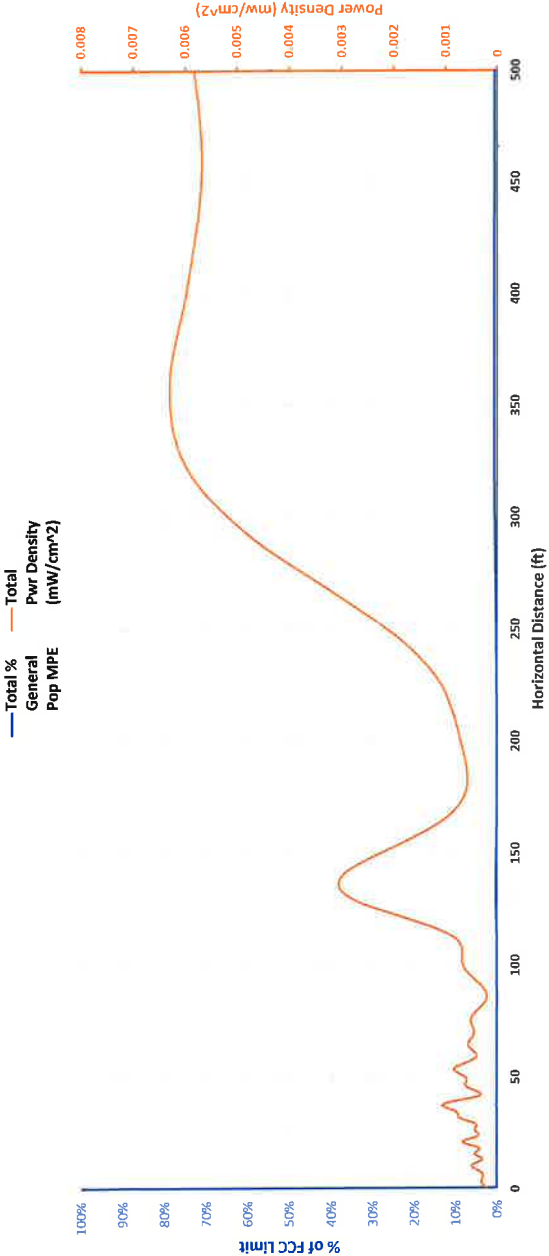
The view of AC/DC Converter is as follows.

Figure 3. AC/DC Converter View



Location	Yale Bowl COW CT - Part 1 of 2 Stadium Side				
Date	10/4/2023				
Band	C-Band	AWS	PCS	850-LTE	700
Operating Frequency (MHz)	3,700	2,145	1,970	880	746
General Population MPE (mW/cm²)	1	1	1	0.586666667	0.497333333
ERP Per Transmitter (Watts)	4,416	6,839	6,839	343	343
Number of Transmitters	2	2	2	2	2
Antenna Centerline (feet)	63	63	63	63	63
Total ERP (Watts)	8,831	13,678	13,678	686	686
Total ERP (dBm)	69	71	71	58	58
Maximum % of General Population Limit	0.03%				

RF Exposure 6ft Above Ground Level
Far Field Formula (per FCC OET65)



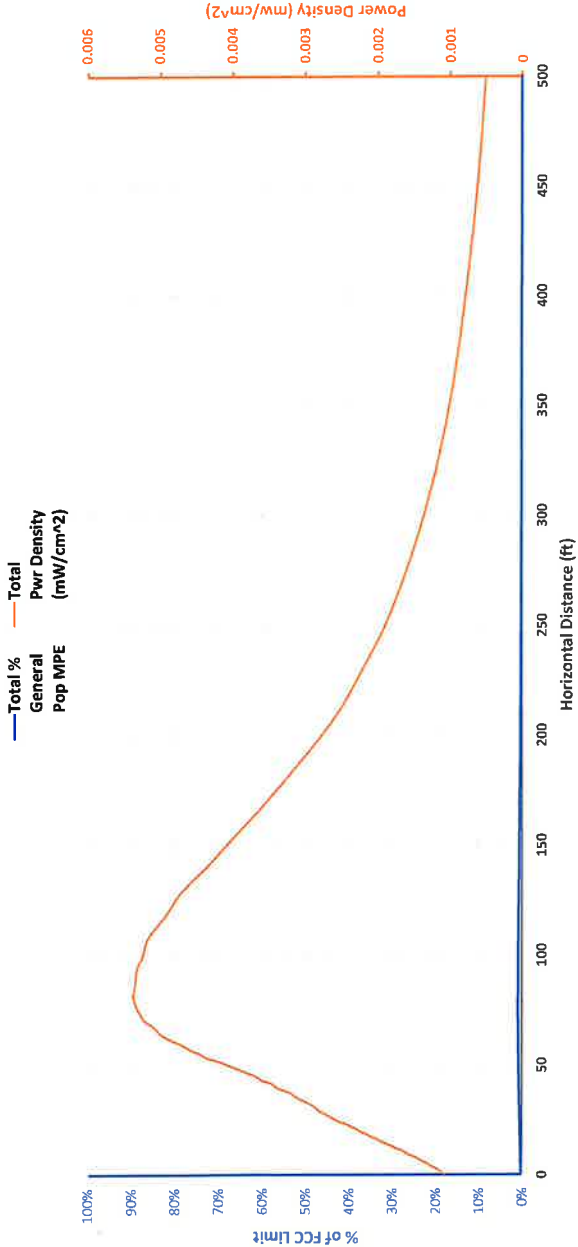
Angle Below Horizon	Power Density (mW/cm²)					Percent of General Population MPE					700 MHz	COVA	Distance	Total Pwr Density (mW/cm²)	Total % General Pop MPE
	C-Band	AWS	PCS	850-LTE	700 MHz	30GHz	25GHz	C-Band	CPDS	AWS	PCS	Equilizer			
90	3.14665E-05	1.7423E-06	6.53317E-05	2.47813E-05	7.78259E-05	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0	0.000201168	0.03%
89	4.13992E-05	9.46219E-06	9.61594E-05	2.61211E-05	7.79815E-05	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.994938701	0.000251123	0.03%
88	5.43995E-05	2.9689E-05	9.83094E-05	2.78994E-05	7.80899E-05	0.00%	0.00%	0.01%	0.00%	0.00%	0.01%	0.00%	1.990483861	0.000288387	0.04%
87	6.80664E-05	3.70523E-05	8.68826E-05	2.98492E-05	7.86924E-05	0.00%	0.00%	0.01%	0.00%	0.00%	0.01%	0.01%	2.987243419	0.000300553	0.04%
86	8.01689E-05	2.40994E-05	6.89921E-05	3.17692E-05	7.93689E-05	0.00%	0.00%	0.01%	0.00%	0.00%	0.01%	0.01%	3.985828281	0.000283498	0.04%
85	9.0326E-05	2.30045E-05	3.98853E-05	3.32516E-05	7.93986E-05	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.01%	4.986853821	0.000265866	0.04%
84	9.89357E-05	4.62757E-05	9.19079E-06	3.37561E-05	8.0233E-05	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.01%	5.99094141	0.000268391	0.04%
83	0.000106568	7.64937E-05	4.0237E-06	3.43262E-05	8.00987E-05	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.01%	6.998719971	0.00030151	0.04%
82	0.000113144	0.000105885	4.26216E-05	3.41688E-05	7.90005E-05	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.01%	8.010827578	0.000374769	0.05%
81	0.000116779	0.000147355	8.8382E-05	3.43846E-05	7.75111E-05	0.00%	0.00%	0.01%	0.00%	0.01%	0.01%	0.01%	9.027913098	0.000464411	0.06%
80	0.000135034	0.00018023	8.64624E-05	3.41849E-05	7.47872E-05	0.00%	0.00%	0.01%	0.00%	0.00%	0.01%	0.01%	10.0506379	0.000490698	0.08%
79	0.00010593	0.000155603	4.85308E-05	3.45157E-05	7.11242E-05	0.00%	0.00%	0.01%	0.00%	0.00%	0.01%	0.01%	11.07967762	0.000415703	0.05%
78	9.05593E-05	6.5303E-05	4.50747E-05	3.50698E-05	6.68241E-05	0.00%	0.00%	0.01%	0.00%	0.01%	0.00%	0.01%	12.11572402	0.000302831	0.04%
77	7.37177E-05	4.08858E-06	0.000106555	3.57744E-05	6.2312E-05	0.00%	0.00%	0.01%	0.00%	0.00%	0.01%	0.01%	13.15948689	0.000282447	0.04%

76	6.3523E-05	5.16336E-05	0.00015883	3.64697E-05	5.82013E-05	0.00%	0.00%	0.01%	0.00%	0.01%	0.02%	0.01%	0.00%	0.01%	0.01%	14.21169616	0.000368658	0.05%
75	6.87087E-05	0.000144215	0.000128828	3.68119E-05	5.48292E-05	0.00%	0.00%	0.01%	0.00%	0.01%	0.01%	0.01%	0.00%	0.01%	0.01%	15.27310397	0.000433936	0.05%
74	9.54569E-05	0.000154813	4.10022E-05	3.57938E-05	5.22165E-05	0.00%	0.00%	0.01%	0.00%	0.01%	0.00%	0.01%	0.00%	0.01%	0.01%	16.34448699	0.000379282	0.04%
73	0.000412665	8.77641E-05	4.67E-06	3.4699E-05	5.07361E-05	0.00%	0.00%	0.01%	0.00%	0.01%	0.00%	0.01%	0.00%	0.01%	0.01%	17.42664884	0.000320534	0.04%
72	0.000202552	6.86336E-05	5.78811E-05	3.25489E-05	5.07936E-05	0.00%	0.00%	0.02%	0.00%	0.01%	0.01%	0.01%	0.00%	0.01%	0.01%	18.52042269	0.000411912	0.05%
71	0.000225998	0.000140755	0.000118977	2.98858E-05	5.07533E-05	0.00%	0.00%	0.03%	0.00%	0.01%	0.01%	0.01%	0.00%	0.01%	0.01%	19.62687396	0.00059947	0.07%
70	0.000295186	0.00019015	9.53006E-05	2.70455E-05	5.23716E-05	0.00%	0.00%	0.03%	0.00%	0.02%	0.01%	0.01%	0.00%	0.01%	0.01%	20.74630335	0.000660054	0.07%
69	0.000300212	0.000125438	2.59076E-05	2.41784E-05	5.43785E-05	0.00%	0.00%	0.03%	0.00%	0.01%	0.00%	0.00%	0.00%	0.01%	0.01%	21.88025	0.000530114	0.06%
68	0.00027068	2.53779E-05	9.29942E-07	2.00017E-05	5.66834E-05	0.00%	0.00%	0.03%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.01%	23.02349487	0.000375673	0.04%
67	0.000213875	2.55374E-05	3.43697E-05	2.01454E-05	5.89083E-05	0.00%	0.00%	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.01%	24.19506452	0.000358836	0.04%
66	0.000168882	0.00011901	5.04179E-05	1.90803E-05	6.31757E-05	0.00%	0.00%	0.02%	0.00%	0.01%	0.01%	0.01%	0.00%	0.01%	0.01%	25.37803506	0.000418708	0.05%
65	0.000144769	0.000175661	1.89093E-05	1.86929E-05	6.37787E-05	0.00%	0.00%	0.01%	0.00%	0.02%	0.00%	0.00%	0.00%	0.01%	0.01%	26.57953651	0.000421811	0.05%
64	0.000167666	0.000125732	7.31888E-06	1.88558E-05	6.58331E-05	0.00%	0.00%	0.02%	0.00%	0.01%	0.00%	0.00%	0.00%	0.01%	0.01%	27.80075755	0.000385405	0.05%
63	0.000244842	4.19649E-05	7.3771E-05	1.96284E-05	6.74351E-05	0.00%	0.00%	0.02%	0.00%	0.00%	0.01%	0.00%	0.00%	0.01%	0.01%	29.04295062	0.000447641	0.05%
62	0.0003663073	9.54979E-06	0.000151006	2.10375E-05	6.79194E-05	0.00%	0.00%	0.04%	0.00%	0.00%	0.02%	0.00%	0.00%	0.01%	0.01%	30.3074376	0.000612566	0.07%
61	0.000494041	1.41177E-05	0.000138919	2.3108E-05	6.71062E-05	0.00%	0.00%	0.05%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.01%	31.59561593	0.000737292	0.08%
60	0.000600047	9.66463E-06	5.1308E-05	2.57742E-05	6.45938E-05	0.00%	0.00%	0.06%	0.00%	0.00%	0.01%	0.00%	0.00%	0.01%	0.01%	32.9086534	0.000751387	0.08%
59	0.0006050512	7.96628E-06	4.21944E-05	2.92587E-05	6.01527E-05	0.00%	0.00%	0.07%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.01%	34.24890528	0.000790084	0.09%
58	0.000625553	4.1587E-05	0.000188784	3.28825E-05	5.38227E-05	0.00%	0.00%	0.06%	0.00%	0.00%	0.02%	0.01%	0.00%	0.01%	0.01%	35.61755306	0.00094364	0.10%
57	0.00053865	8.1528E-05	0.000355883	3.67542E-05	4.59466E-05	0.00%	0.00%	0.05%	0.00%	0.01%	0.04%	0.01%	0.00%	0.01%	0.01%	37.01622281	0.001058662	0.11%
56	0.000415215	7.2156E-05	0.000350972	3.98357E-05	3.67513E-05	0.00%	0.00%	0.04%	0.00%	0.01%	0.04%	0.01%	0.00%	0.01%	0.01%	38.44698546	0.00091489	0.10%
55	0.000297066	2.62938E-05	0.000713338	4.16728E-05	2.78518E-05	0.00%	0.00%	0.03%	0.00%	0.00%	0.02%	0.01%	0.00%	0.01%	0.01%	39.91182968	0.000564222	0.06%
54	0.000223892	1.34546E-05	1.34179E-05	1.190338E-05	8.92549E-06	0.00%	0.00%	0.05%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	41.4129241	0.000314382	0.04%
53	0.000213183	4.76235E-05	3.86208E-05	3.87991E-05	1.30563E-05	0.00%	0.00%	0.02%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	42.95258086	0.000356283	0.04%
52	0.000278032	6.34145E-05	0.000156383	3.37434E-05	9.04042E-06	0.00%	0.00%	0.03%	0.00%	0.01%	0.02%	0.01%	0.00%	0.00%	0.00%	44.55328071	0.000540673	0.05%
51	0.000378555	3.04179E-05	0.000175845	2.69234E-05	7.69359E-06	0.00%	0.00%	0.04%	0.00%	0.00%	0.02%	0.00%	0.00%	0.00%	0.00%	46.15768989	0.000619435	0.06%
50	0.000478225	1.54039E-06	1.63189E-05	1.930338E-05	8.92549E-06	0.00%	0.00%	0.05%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	47.82867898	0.000643413	0.06%
49	0.000537878	1.34546E-05	1.34179E-05	1.190338E-05	1.19863E-05	0.00%	0.00%	0.05%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	49.54934406	0.00066641	0.06%
48	0.000531216	7.38355E-05	0.000119749	5.9057E-06	1.60056E-05	0.00%	0.00%	0.05%	0.00%	0.01%	0.01%	0.00%	0.00%	0.00%	0.00%	51.32303052	0.000746712	0.08%
47	0.000457487	5.3665E-05	0.00029606	2.56672E-06	1.7415E-05	0.00%	0.00%	0.05%	0.00%	0.01%	0.03%	0.00%	0.00%	0.00%	0.00%	53.15335991	0.00083452	0.09%
46	0.000338838	1.50312E-05	0.000338506	1.8535E-06	2.24901E-05	0.00%	0.00%	0.03%	0.00%	0.00%	0.03%	0.00%	0.00%	0.00%	0.00%	55.04426016	0.000714719	0.07%
45	0.000214336	5.12973E-05	0.000119511	3.65674E-06	2.3336E-05	0.00%	0.00%	0.02%	0.00%	0.01%	0.02%	0.00%	0.00%	0.00%	0.00%	57	0.00049174	0.05%
44	0.000122086	0.000191279	4.14636E-05	7.15594E-06	2.23186E-05	0.00%	0.00%	0.01%	0.00%	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%	59.02522789	0.000384303	0.04%
43	8.9267E-05	0.000307391	2.51588E-05	1.11607E-05	1.97556E-05	0.00%	0.00%	0.01%	0.00%	0.03%	0.00%	0.00%	0.00%	0.00%	0.00%	61.12501647	0.000452733	0.05%
42	0.000119714	0.000274882	0.000123532	1.6493E-05	1.6549E-05	0.00%	0.00%	0.01%	0.00%	0.03%	0.01%	0.00%	0.00%	0.00%	0.00%	63.30491335	0.00054869	0.06%
41	0.00019454	0.000133048	0.000181974	1.64441E-05	1.25029E-05	0.00%	0.00%	0.02%	0.00%	0.01%	0.02%	0.00%	0.00%	0.00%	0.00%	65.57999921	0.00053851	0.06%
40	0.00027878	2.49034E-05	0.000131601	1.65295E-05	9.53365E-06	0.00%	0.00%	0.03%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	67.92995478	0.00041346	0.05%
39	0.000335635	1.90488E-05	6.02376E-05	1.51659E-05	7.76031E-06	0.00%	0.00%	0.03%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	70.38913792	0.000437848	0.05%
38	0.0003400258	5.54381E-05	6.83609E-05	1.32071E-05	7.27458E-06	0.00%	0.00%	0.03%	0.00%	0.01%	0.01%	0.00%	0.00%	0.00%	0.00%	72.95667304	0.000484639	0.05%
37	0.000289101	6.3937E-05	0.000130933	1.15891E-05	7.832E-06	0.00%	0.00%	0.03%	0.00%	0.01%	0.01%	0.00%	0.00%	0.00%	0.00%	75.64155483	0.000503293	0.05%
36	0.000202098	6.13143E-05	0.000143404	1.10296E-05	8.76116E-06	0.00%	0.00%	0.02%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	78.45376947	0.000426607	0.04%
35	0.000113843	8.13405E-05	7.55626E-05	1.25114E-05	9.6451E-06	0.00%	0.00%	0.01%	0.00%	0.01%	0.01%	0.00%	0.00%	0.00%	0.00%	81.40443638	0.000292903	0.03%
34	6.25529E-05	9.6883E-05	1.55327E-05	1.56764E-05	1.01216E-05	0.00%	0.00%	0.01%	0.00%	0.01%	0.01%	0.00%	0.00%	0.00%	0.00%	84.50597521	0.000290767	0.03%
33	7.36786E-05	6.46162E-05	4.28886E-05	2.02928E-05	1.04795E-05	0.00%	0.00%	0.01%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	87.77230294	0.000211956	0.02%
32	0.000150156	1.91655E-05	0.000125182	2.44086E-05	1.14695E-05	0.00%	0.00%	0.02%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	91.21906816	0.000330383	0.04%
31	0.000270273	3.34043E-05	0.000156244	2.84972E-05	1.43154E-05	0.00%	0.00%	0.03%	0.00%	0.00%	0.02%	0.00%	0.00%	0.00%	0.00%	94.86939049	0.000507334	0.05%
30	0.00039318	0.000100476	9.66194E-05	3.14821E-05	2.04204E-05	0.00%	0.00%	0.04%	0.00%	0.01%	0.01%	0.01%	0.00%	0.00%	0.00%	98.72689603	0.000640798	0.07%
29	0.000472353	0.000116484	2.44493E-05	3.49287E-05	3.09932E-05	0.00%	0.00%	0.05%	0.00%	0.01%	0.01%	0.01%	0.00%	0.01%	0.01%	102.8307221	0.000678577	0.07%
28	0.000477906	4.39889E-05	6.75061E-05	3.71829E-05	4.64882E-05	0.00%	0.00%	0.05%	0.00%	0.00%	0.01%	0.01%	0.00%	0.01%	0.01%	107.2014085	0.000673072	0.07%
27	0.000403848	3.96477E-06	0.000298001	4.11356E-05	6.62548E-05	0.00%	0.00%	0.04%	0.00%	0.00%	0.03%	0.01%	0.00%	0.00%	0.00%	111.8687988	0.000813204	0.09%
26	0.000271524	0.000159151	0.000693119	4.74032E-05	8.78634E-05	0.00%	0.00%	0.03%	0.00%	0.02%	0.07%	0.01%	0.00%	0.02%	0.02%	115.867319	0.00125906	0.14%
25	0.000128239	0.000517631	0.001150855	5.57212E-05	0.000108398	0.00%	0.00%	0.01%	0.00%	0.01%	0.12%	0.01%	0.00%	0.02%	0.02%	122.2368945	0.001960845	0.21%
24	2.62271E-05	0.0009073	0.001540816	6.54261E-05	0.000124094	0.00%	0.00%	0.00%	0.00%	0.09%	0.15%	0.01%	0.00%	0.02%	0.02%	128.0240961	0.002663863	0.28%
23	6.39558E-06	0.00119129	0.001713484	7.42814E-05	0.000131184	0.00%	0.00%	0.00%	0.00%	0.11%	0.17%	0.03%	0.00%	0.03%	0.03%	134.2835849	0.003044714	0.32%
22	8.0746E-05	0.001067272	0.00157861	7.93003E-05	0.000126845	0.00%	0.00%	0.01%	0.00%	0.11%	0.16%	0.01%	0.00%	0.03%	0.03%	141.0799506	0.002932802	0.31%
21	0.000225311	0.000804975	0.001163543	7.83037E-05	0.000110607	0.00%	0.00%	0.02%	0.00%	0.08%	0.12%	0.01						

5	0.004175574	0.000954369	0.001237987	0.000361174	0.0003883457	0.00%	0.42%	0.00%	0.10%	0.12%	0.06%	0.00%	0.08%	6515129813	0.00711256	0.78%
4	0.003268084	0.001738574	0.002001212	0.000272454	0.000282679	0.00%	0.33%	0.00%	0.17%	0.20%	0.05%	0.00%	0.06%	8151379766	0.007563403	0.80%
3	0.002151416	0.001921872	0.002073557	0.00017367	0.000177715	0.00%	0.22%	0.00%	0.19%	0.21%	0.03%	0.00%	0.04%	1087624791	0.006498271	0.68%
2	0.001070933	0.001314506	0.001366981	8.46764E-05	8.56569E-05	0.00%	0.11%	0.00%	0.13%	0.14%	0.01%	0.00%	0.02%	1632266437	0.003922753	0.41%
1	0.000286293	0.000421536	0.000428385	2.2482E-05	2.25338E-05	0.00%	0.03%	0.00%	0.04%	0.04%	0.00%	0.00%	0.00%	3265527813	0.001183231	0.12%

Location	Yale Bowl COW CT - Part 2 of 2 Street Side			
Date	10/4/2023			
Band	AWS	PCS	850-LTE	700
Operating Frequency (MHz)	2,145	1,970	880	746
General Population MPE (mW/cm ²)	1	1	0.586666667	0.497333333
ERP Per Transmitter (Watts)	52	51	42	42
Number of Transmitters	2	2	2	2
Antenna Centerline (feet)	63	63	63	63
Total ERP (Watts)	103	102	84	84
Total ERP (dBm)	50	50	49	49
Maximum % of General Population Limit	0.8%			

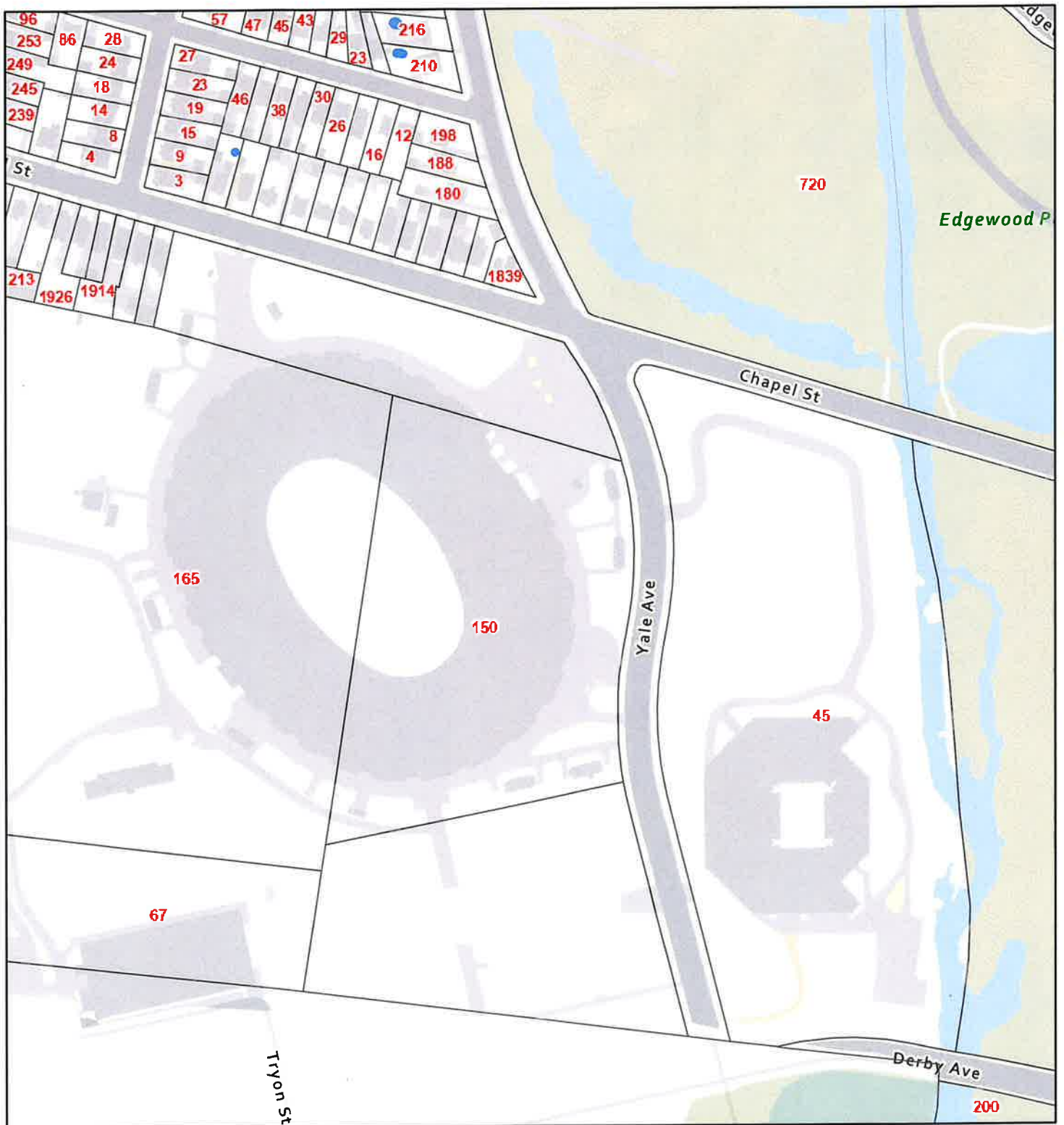
RF Exposure 6ft Above Ground Level
Far Field Formula (per FCC OET65)



Angle Below Horizon	Power Density (mW/cm²)				Percent of General Population MPE								Distance	Total Pwr Density (mW/cm²)	Total % General Pop MPE	
	AWS	PCS	850-LTE	700 MHz	38GHz	28GHz	C-Band	CBRS	AWS	PCS	Cellular	CDMA				700 MHz
90	3.61572E-05	3.10648E-05	0.000487367	0.000509119	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.08%	0.00%	0.10%	0	0.001063708	0.19%
89	3.29657E-05	3.40515E-05	0.00051018	0.000543365	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.09%	0.00%	0.11%	0.994938701	0.001122563	0.20%
88	3.00376E-05	3.64535E-05	0.000521587	0.000570546	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.09%	0.00%	0.11%	1.990483861	0.001158624	0.21%
87	2.61218E-05	3.90966E-05	0.000532924	0.000610419	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.09%	0.00%	0.12%	2.987243419	0.001209374	0.22%
86	2.32314E-05	4.26727E-05	0.000556849	0.000652681	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.09%	0.00%	0.13%	3.985828281	0.001275435	0.23%
85	1.97189E-05	4.66613E-05	0.000568257	0.000681566	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.10%	0.00%	0.14%	4.986853821	0.001316203	0.24%
84	1.67272E-05	4.98307E-05	0.000593041	0.000727861	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.10%	0.00%	0.15%	5.99094141	0.00138746	0.25%
83	1.38579E-05	5.44214E-05	0.000604446	0.000759138	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.10%	0.00%	0.15%	6.998719971	0.001431864	0.26%
82	1.12124E-05	5.80462E-05	0.000615689	0.000803702	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.10%	0.00%	0.16%	8.010823758	0.00149465	0.27%
81	8.86001E-06	6.1874E-05	0.000641351	0.000863097	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.11%	0.00%	0.17%	9.027913098	0.001575182	0.29%

13	0.000565419	0.000557756	0.000373278	0.000447709	0.00%	0.00%	0.00%	0.00%	0.06%	0.06%	0.00%	0.06%	0.00%	0.09%	246.8941248	0.0019444162	0.27%
12	0.000494256	0.000487558	0.00031887	0.000382452	0.00%	0.00%	0.00%	0.00%	0.05%	0.05%	0.00%	0.05%	0.00%	0.08%	268.1639162	0.001683137	0.23%
11	0.000416286	0.000410644	0.000274823	0.000329623	0.00%	0.00%	0.00%	0.00%	0.04%	0.04%	0.00%	0.05%	0.00%	0.07%	293.2395789	0.001431377	0.20%
10	0.000344774	0.000340102	0.000227613	0.000272998	0.00%	0.00%	0.00%	0.00%	0.03%	0.03%	0.00%	0.04%	0.00%	0.05%	323.2650637	0.001185487	0.16%
9	0.000279807	0.000276015	0.000184723	0.000221556	0.00%	0.00%	0.00%	0.00%	0.03%	0.03%	0.00%	0.03%	0.00%	0.04%	359.8838369	0.000952102	0.13%
8	0.000221465	0.000218464	0.000149612	0.000179445	0.00%	0.00%	0.00%	0.00%	0.02%	0.02%	0.00%	0.03%	0.00%	0.04%	405.5760742	0.000768985	0.11%
7	0.000169818	0.000167516	0.000114722	0.000137597	0.00%	0.00%	0.00%	0.00%	0.02%	0.02%	0.00%	0.02%	0.00%	0.03%	464.2277464	0.000589653	0.08%
6	0.000124929	0.000120431	8.63625E-05	0.000101225	0.00%	0.00%	0.00%	0.00%	0.01%	0.01%	0.00%	0.01%	0.00%	0.02%	542.3187739	0.000432948	0.06%
5	8.48763E-05	8.3726E-05	6.14396E-05	7.03739E-05	0.00%	0.00%	0.00%	0.00%	0.01%	0.01%	0.00%	0.01%	0.00%	0.01%	651.5129813	0.000300416	0.04%
4	5.43705E-05	5.36336E-05	3.93573E-05	4.50805E-05	0.00%	0.00%	0.00%	0.00%	0.01%	0.01%	0.00%	0.01%	0.00%	0.01%	815.1379766	0.000192442	0.03%
3	3.06052E-05	2.95032E-05	2.26703E-05	2.53758E-05	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	1087.624791	0.000108154	0.01%
2	1.32994E-05	1.31192E-05	1.03156E-05	1.12839E-05	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1632.266437	4.80181E-05	0.01%
1	3.25016E-06	3.20611E-06	2.57969E-06	2.75759E-06	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	3265.527813	1.17936E-05	0.00%

My Map

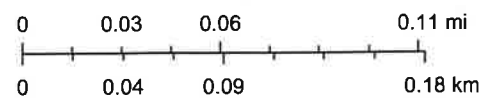


10/9/2023, 10:32:44 AM

 NH Parcels Web

New Haven Web Parcels

1:4,514



150 YALE AV

Location

150 YALE AV

Mblu

377/ 1079/ 00120/ /

Acct#

377 1079 00120

Owner

YALE UNIVERSITY

Assessment

\$73,911,180

Appraisal

\$105,587,400

PID

23838

Building Count

2

Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2022	\$102,587,800	\$2,999,600	\$105,587,400
Assessment			
Valuation Year	Improvements	Land	Total
2022	\$71,811,460	\$2,099,720	\$73,911,180

Owner of Record

Owner

YALE UNIVERSITY

Sale Price

\$0

Co-Owner

Certificate

Address

YALE U CONTROLLER FRA
PO BOX 208372
NEW HAVEN, CT 06520-8372

Book & Page

0/0

Sale Date

Instrument

Ownership History

Ownership History					
Owner	Sale Price	Certificate	Book & Page	Instrument	Sale Date
YALE UNIVERSITY	\$0		0/0		

Building Information

Building 1 : Section 1

Year Built:

1913

Living Area:

302,262

Replacement Cost:

\$164,043,633

Building Percent Good:

60

Replacement Cost

Less Depreciation:

\$98,426,200

ATTACHMENT 2

YALE UNIVERSITY
150 Munson Street
New Haven, CT 06511

**RE: Cellco Partnership d/b/a Verizon Wireless; Proposed Temporary
Telecommunications Facility located at 40 Central Avenue, New Haven, CT**

To Whom It May Concern:

Yale University is the owner of certain real property located in the City of New Haven at 40 Central Avenue and identified as Map/Block/Lot 377/1080/00500 on the tax map of the City of New Haven ("Subject Property"). Yale University and Cellco Partnership have executed an agreement providing Cellco with a nonexclusive license to use a portion of the Subject Property for a temporary communications facility consisting of a cell on wheels, pursuant to the terms of the aforementioned agreement.

Sincerely,

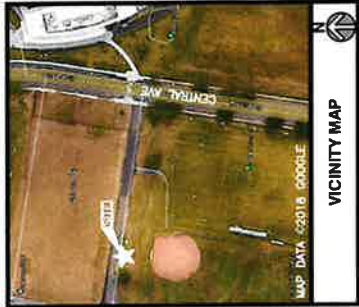
YALE UNIVERSITY

By: Jenna Digitally signed
Name: Jenna by Jenna Milman
Title: Milman Date: 2023.10.06
Date: 13:24:30 -04'00'

LEASE EXHIBIT

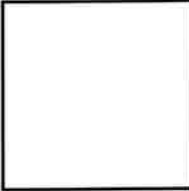
LEASE EXHIBIT:
THIS LEASE PLAN IS DIAGRAMMATIC IN NATURE
AND IS INTENDED TO PROVIDE GENERAL
INFORMATION REGARDING THE LOCATION AND
SIZE OF THE PROPOSED WIRELESS
COMMUNICATION FACILITY. THE SITE LAYOUT WILL
BE FINALIZED UPON COMPLETION OF SITE
SURVEY AND FACILITY DESIGN.

APPROXIMATE LATITUDE: N 41° 18' 40.557"
LONGITUDE: W-72° 57' 54.295"
COORDINATES: -72.955082



NOTE:
THIS IS A "NO DIG" SITE. NO EXCAVATIONS ARE
PERMITTED.

NOTE:
AN ANALYSIS OF THE CAPACITY OF THE
EXISTING STRUCTURE TO SUPPORT THE
PROPOSED LOADING HAS BEEN COMPLETED
DATE: AUGUST 17, 2023



CHECKED BY: JK

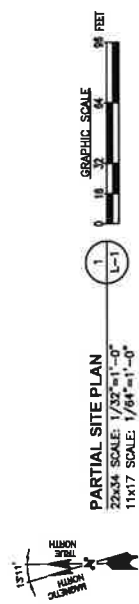
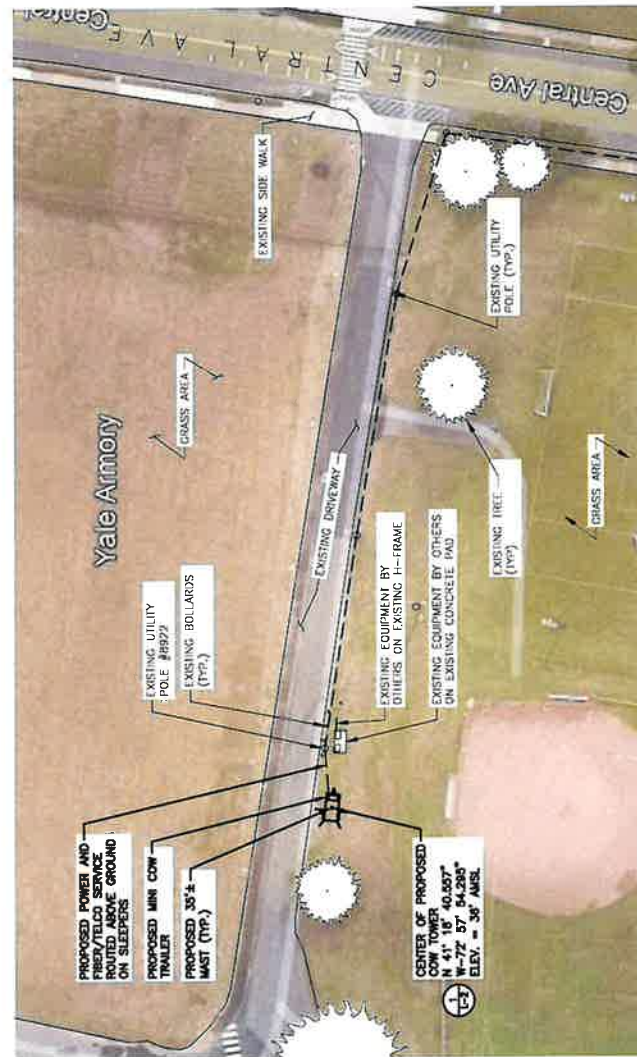
APPROVED BY: DPH

SUBMITTALS	
REV	DESCRIPTION
1	ISSUED FOR PERMITS
2	ISSUED FOR CONSTRUCTION
3	ISSUED FOR CLOSING
4	ISSUED FOR FINAL
5	ISSUED FOR REVIEW

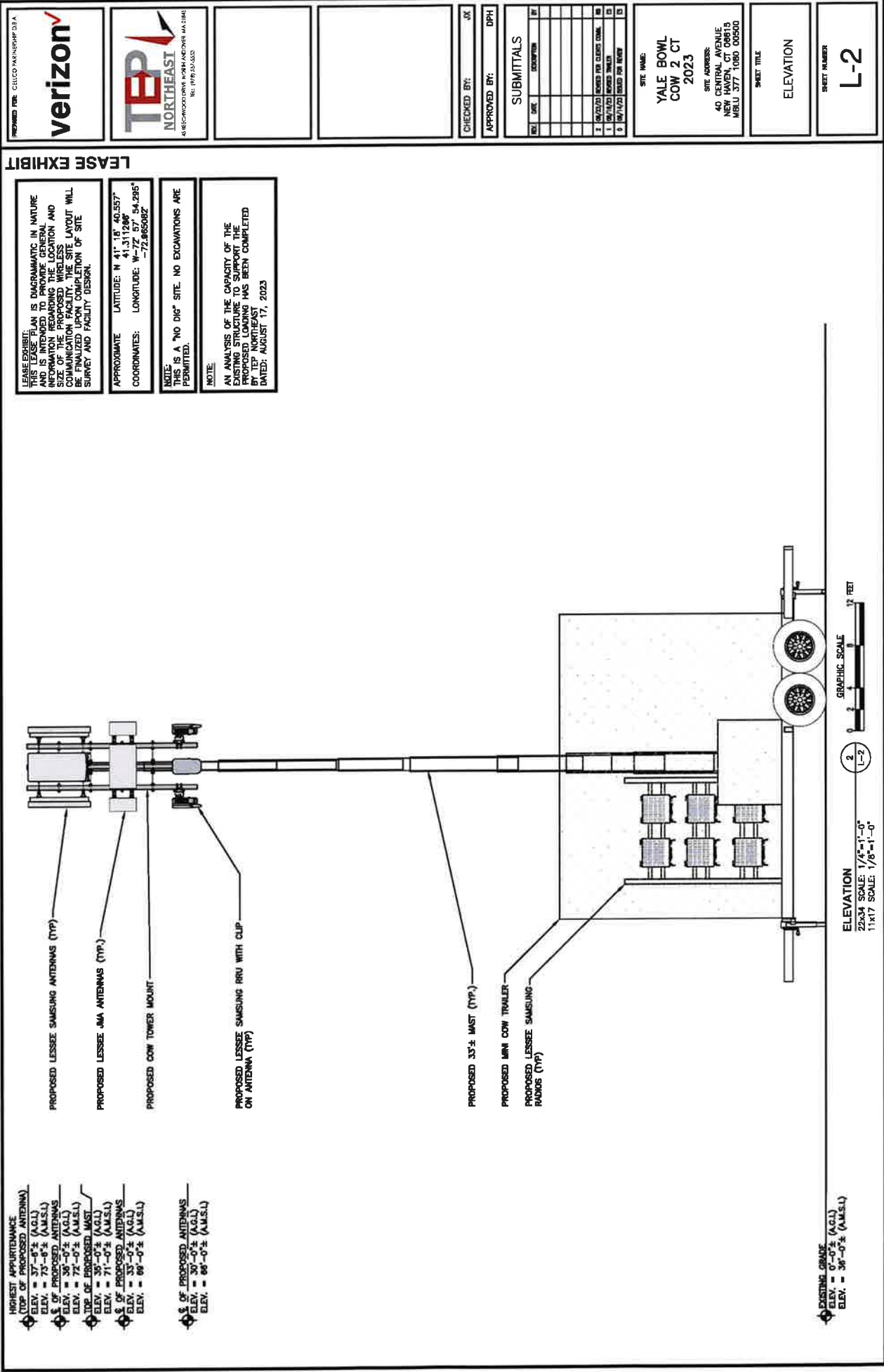
SITE NAME:
YALE BOWL
COW 2 CT
2023
SITE ADDRESS:
40 CENTRAL AVENUE
NEW HAVEN, CT 06615
MSLU 577 1080 0500

SHEET TITLE
PARTIAL SITE PLAN

SHEET NUMBER
L-1



PARTIAL SITE PLAN
22x34 SCALE: 1/32"=1'-0"
11x17 SCALE: 1/64"=1'-0"



LEASE EXHIBIT:
THIS LEASE PLAN IS DIAGRAMATIC IN NATURE AND IS INTENDED TO PROVIDE GENERAL INFORMATION REGARDING THE LOCATION AND COORDINATES OF THE PROPOSED WIRELESS COMMUNICATION FACILITY. THE SITE LAYOUT WILL BE FINALIZED UPON COMPLETION OF SITE SURVEY AND FACILITY DESIGN.

APPROXIMATE LATITUDE: N 41° 18' 40.557"
COORDINATES: LONGITUDE: W-72 57' 54.285"
-72.950827

NOTE:
THIS IS A "NO DIG" SITE. NO EXCAVATIONS ARE PERMITTED.

NOTE:
AN ANALYSIS OF THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THE PROPOSED LOADING HAS BEEN COMPLETED BY TEP NORTHEAST
DATED: AUGUST 17, 2023

REVISION FILE: C:\CDD\MANUSCRIPT\03.A

CHECKED BY: JK

APPROVED BY: DPH

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
1	04/11/23	ISSUED FOR CLIPPER CONSTRUCTION	DPH
2	04/11/23	ISSUED FOR RADIUS	DPH
3	04/11/23	ISSUED FOR RADIUS	DPH

SITE NAME:
YALE BOWL
COW 2 CT
2023

SITE ADDRESS:
40 CENTRAL AVENUE
NEW HAVEN, CT 06515
MSLU 377 1080 05500

SHEET TITLE
ELEVATION

SHEET NUMBER
L-2

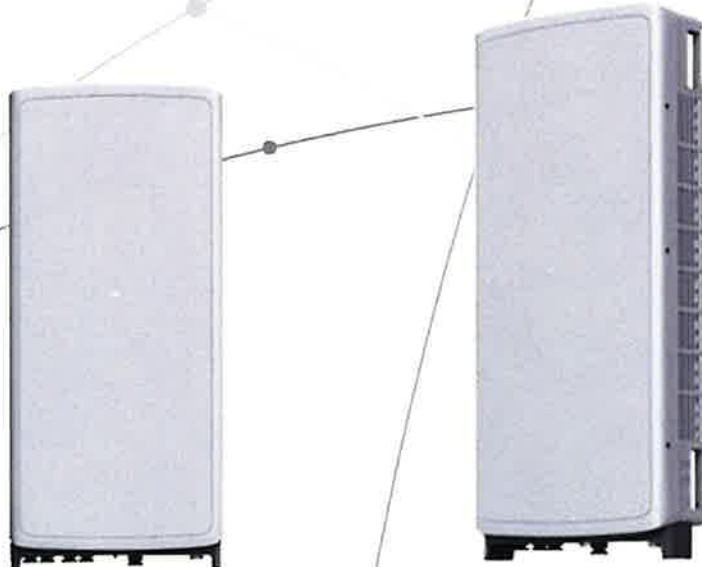
SAMSUNG

SAMSUNG C-Band 64T64R Massive MIMO Radio

for High Capacity and Wide Coverage

Samsung C-Band 64T64R Massive MIMO Radio enables mobile operators to increase coverage range, boost data speeds and ultimately offer enriched 5G experiences to users in the U.S..

Model Code : MT6407-77A



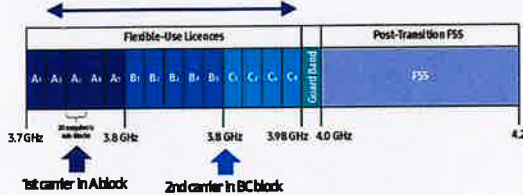
Points of Differentiation

Wide Bandwidth

With capability to support up to 2 CC carrier configuration, Samsung C-Band massive MIMO Radio supports 200 MHz bandwidth in the C-Band spectrum.

Samsung C-Band massive MIMO Radio covers the entire C-Band 280 MHz spectrum, so it can meet the operator's needs in current A block and future B/C blocks

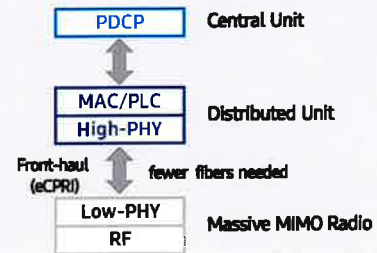
C-Band spectrum supported by Massive MIMO Radio



Future Proof Product

Samsung C-Band 64T64R Massive MIMO radio supports not only CPRI but also eCPRI as front-haul interface.

It enables operators can cut down on OPEX/CAPEX by reducing front-haul bandwidth through low layer split and using ethernet based higher efficient line.



Enhanced Performance

C-Band massive MIMO Radio creates sharp beams and extends networks' coverage on the critical mid-band spectrum using a large number of antenna elements and high output power to boost data speeds.

This helps operators reduce their CAPEX as they now need less products to cover the same area than before.

Furthermore, as C-Band massive MIMO Radio supports MU-MIMO (Multi-user MIMO), it enables to increase user throughput by minimizing interference.



Well Matched Design

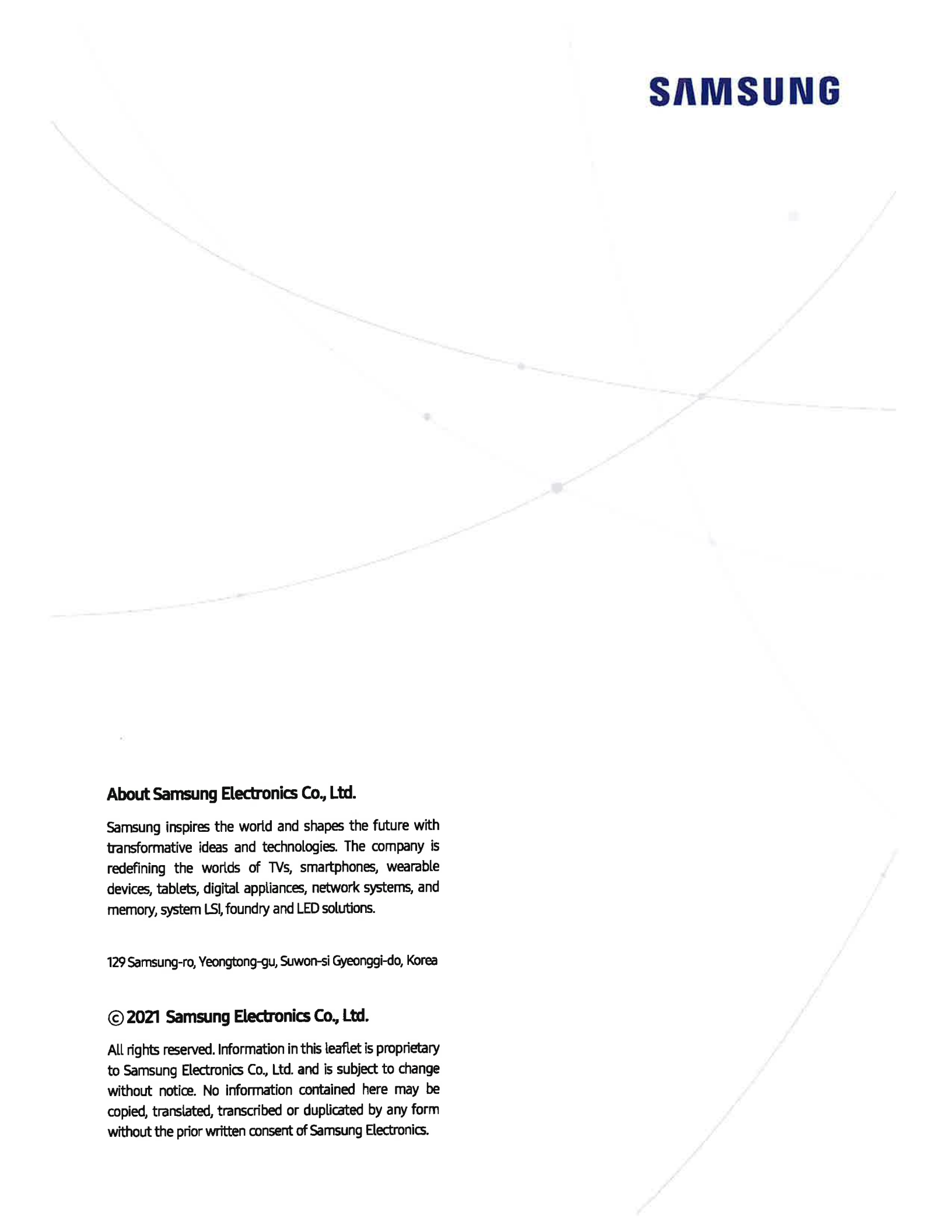
Samsung C-Band Massive MIMO radio utilizes 64 antennas, supports up to 280MHz bandwidth, and delivers a 200W output power. despite the above advanced performance, the Radio has a compact size of 50.9L and 79.4lbs. This makes it easy to install the Radio.

It is designed to look solid and compact, with a low profile appearance so that, when installed, harmonizes well with the surrounding environment.



Technical Specifications

Item	Specification
Tech	NR
Band	n77
Frequency Band	3700 - 3980 MHz
EIRP	78.5dBm (53.0 dBm+25.5 dBi)
IBW/OBW	280 MHz / 200 MHz
Installation	Pole/Wall
Size/Weight	16.06 x 35.06 x 5.51 inch (50.86L) / 79.4 lbs



SAMSUNG

About Samsung Electronics Co., Ltd.

Samsung inspires the world and shapes the future with transformative ideas and technologies. The company is redefining the worlds of TVs, smartphones, wearable devices, tablets, digital appliances, network systems, and memory, system LSI, foundry and LED solutions.

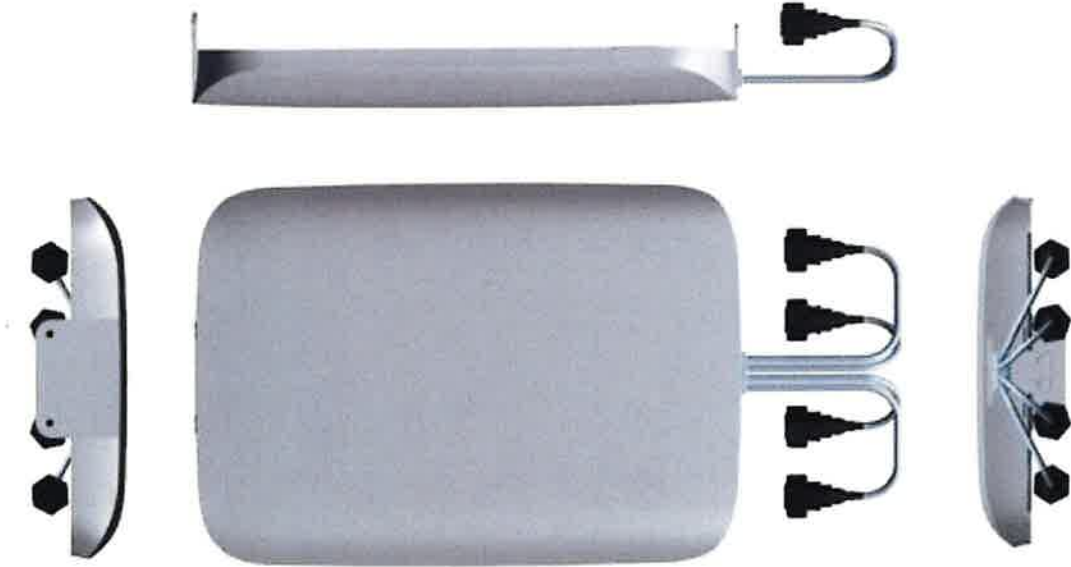
129 Samsung-ro, Yeongtong-gu, Suwon-si Gyeonggi-do, Korea

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[CBRS] Clip-on Antenna Specifications

VZW accepted IP45 in FLD, but IP55 is Samsung Spec.

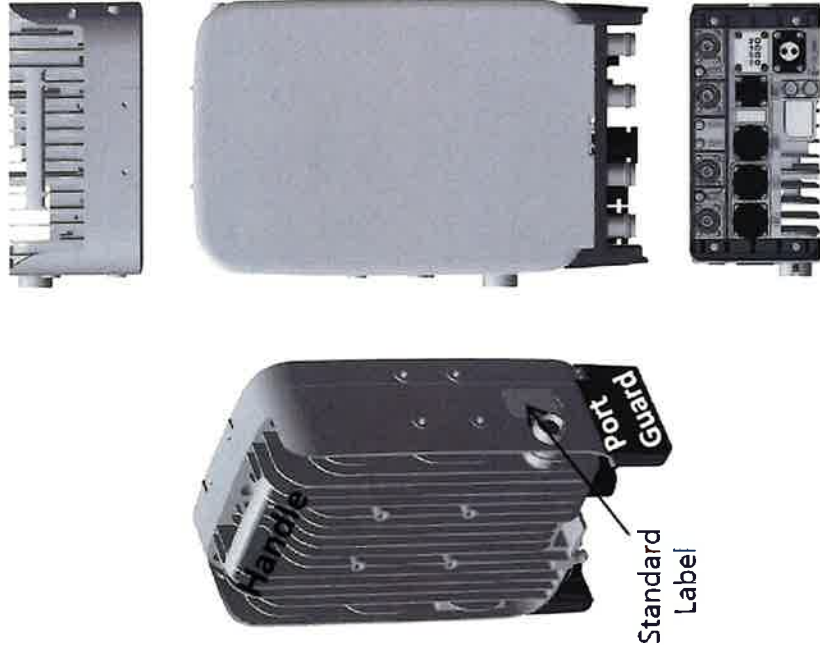


Items	Clip-on Antenna, BASTA**
Antenna Gain	12.5 ± 0.5 dBi (Max 13 dBi)
Horizontal BW (-3dB)	65° ± 5°
Vertical BW (-3dB)	17° ± 3°
Electrical Tilt	8° (fixed) ± 2°
Front-to-Back Ratio	> 25 dB
Port-to-Port Tracking	< 3 dB
VSWR	< 1.5
Isolation	> 25 dB
Ingress Protection	IP55
Size	220(W)×313(H)×34.3(D) mm (*) (8.7 x 12.3 x 1.4 inch.)
Weight	< 2.0 kg [Typ. 1.3 kg]
It is required that the radio should be weatherproofed properly with JMA WPS Boot with external antenna or with Weatherproof Boot for clip-on antennas.	

Antenna includes integrated cable with connector
 * Design is subject to minor change

** Ant. spec. follows NGMN recommendations on Base Station Antenna Standards (BASTA). For example, 'mean ± tolerance of 86.6%' is applied to double-sided specification of statistical RF parameters.

[CBRS RRH] Spec.



Current Size: 216 x 307 x 105.5 mm (6.99L)
 (8.5 x 12.1 x 4.1 inch., excluding Port Guard)
 Design is subject to minor change

Item	Specification
Band	Band 48 (3.5 GHz)
Frequency	3550~3700 MHz
IBW	150 MHz
OBW	80 MHz
# of Carriers	5/10/15/20 MHz x 4 carriers
RF Chain	4TX / 4RX
RF Output Power & EIRP	4 path x 5 W (Total: 20 W = 43 dBm) (EIRP: 47 dBm / 10 MHz)
RX Sensitivity	Typical : -101.5 dBm @ 1 Rx (3GPP 36.104, Wide Area)
Modulation	256-QAM support (1024-QAM with 1~2dB power back-off) -48 VDC (-38 to -57 VDC, 1 SKU), with clip-on AC-DC converter (Option)
Input Power	
Power Consumption	About 160 Watt @ 100% RF load, typical conditions
Volume	Under 7L (w/o Antenna), Under 9.6L (with antenna)
Weight	Under 8.0 kg (18.64 lb) (w/o Antenna), Under 10.5 Kg (with ant.)
Operating Temperature	-40°C (-40°F) ~ 55°C (131°F) (W/o solar load)
Cooling	Natural convection
Unwanted Emission	3GPP 36.104 Category A [B48] : FCC 47 CFR 96.41 e)
Optic Interface	20km, 2 ports (9.8Gbps x 2), SFP, single mode, duplex or Bi-Di
CPRI Cascade	Not supported
# of Antenna Port	4
External Alarm (UDA)	4
RET	AISG 2.2
TMA & built-in Bias-T I//F and PIM cancellation	Not supported
Mounting Options	Pole, wall, tower, back to back, side by side (for external ant), 3 RRH with Clip-on Antenna on the pole
Antenna Type	Integrated (Clip-on) antenna (Option), External antenna (Option)
NB-IoT	Not Supported (HW Resource reserved for 1 Guard Band NB-IoT per LTE carrier)
Spectrum Analyzer	TX/RX Support
External Alarm (UDA)	4
5G NR	Support with S/W upgrade
X RAN	Support with S/W upgrade

SAMSUNG

Samsung Micro Radio

CBRS(N48) 4T4R Micro Radio

Samsung's CBRS 4T4R Micro Radio provides mobile operators with a cost-effective solution to fill coverage gaps encountered when Macro Radios are in use.

Model Code RT4423-48A(DC)
RT4423-48B(AC)



Homepage
samsungnetworks.com

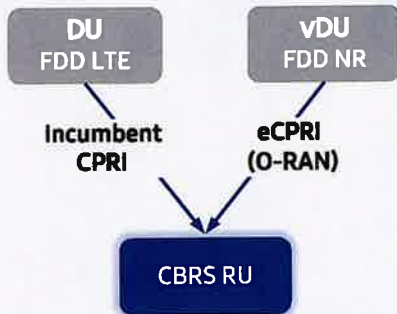


Youtube
www.youtube.com/samsung5g

Points of Differentiation

Dual Personality

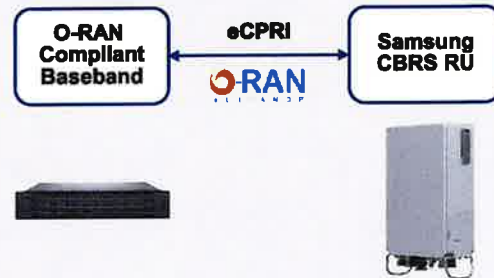
The new CBRS Radio supports existing CPRI and advanced eCPRI interfaces providing installation options for both legacy LTE and NR network equipment.



O-RAN Compliant

A standardized O-RAN radio supports implementing cost-effective networks capable of enhanced data throughput without compromising existing or new network investments.

Samsung O-RAN products ensure state-of-the-art O-RAN technology will accelerate efforts for creating solid O-RAN ecosystems.



High Capacity

The number of carriers required varies according to site(region). Supporting multiple carriers is essential to customers as they seek to utilize all frequencies available to them.

The new CBRS radio can support up to 5 carriers which is an increase of 3 carriers over the capacity of the previous CBRS product.



Compact and Easy Installation

New CBRS RU is compact in its design with a volume of 6L and weighing only about 7kg.

This compact design allows for various installation options including, tower, rooftop, pole, wall and shroud.

A clip on antenna is available providing flexibility to installation requirements.



Technical Specifications

Item	Specification
Tech	LTE / NR
Band	B48, n48 / TDD
Frequency Band	3,550 – 3,700 MHz
RF Power	20 W (5 W x 4 Ports)
IBW/OBW	150MHz / 100MHz
Installation	Pole, Wall, Side by side (max 3 radio)
Size/ Weight	[Radio] w/o Clip-on antenna : 8.7 x 11.8 x 3.6 inch, 5.97L, 7kg w/ Clip-on antenna : 8.7 x 11.8 x 5.0 inch, 8.42L, 8.5kg *AC and DC type have same size and weight [Bracket Weight] Tilting & Swivel (EP97-02038A) : 2.51kg Fixed (EP97-02037A) : 1.31kg Side by side (EP97-02089A) : 8.0kg

SAMSUNG

700/850MHZ MACRO RADIO

DUAL-BAND AND HIGH POWER FOR MACRO COVERAGE

Samsung's future proof dual-band radio is designed to help effectively increase the coverage areas in wireless networks. This 700/850MHz 4T4R dual-band radio has 4Tx/4Rx to 2Tx/2Rx RF chains options and a total output power of 320W, making it ideal for macro sites.

Model Code RF4440d-13A



Homepage
samsungnetworks.com

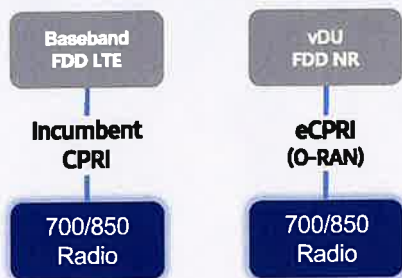


Youtube
www.youtube.com/samsung5g

Points of Differentiation

Continuous Migration

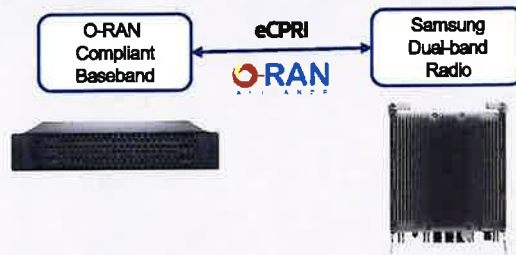
Samsung's 700/850MHz macro radio can support each incumbent CPRI interface as well as an advanced eCPRI interface. This feature provides installable options for both legacy LTE networks and added NR networks.



O-RAN Compliant

A standardized O-RAN radio can help when implementing cost-effective networks because it is capable of sending more data without compromising additional investments.

Samsung's state-of-the-art O-RAN technology will help accelerate the effort toward constructing a solid O-RAN ecosystem.



Optimum Spectrum Utilization

The number of required carriers varies according to site (region). The ability to support many carriers is essential for using all frequencies that the operator has available.

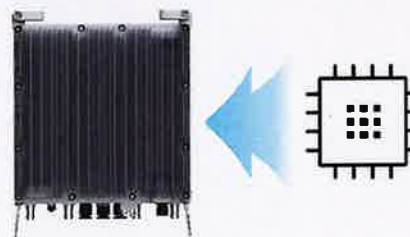
The new 700/850MHz dual-band radio can support up to 2 carriers in the B13 (700MHz) band and 3 carriers in the B5 (850MHz) band, respectively.



Secured Integrity

Access to sensitive data is allowed only to authorized software.

The Samsung radio's CPU can protect root of trust, which is credential information to verify SW integrity, and secure storage provides access control to sensitive data by using dedicated hardware (TPM).



Technical Specifications

Item	Specification
Tech	LTE / NR
Brand	B13(700MHz), B5(850MHz)
Frequency Band	DL: 746 – 756MHz, UL: 777 – 787MHz DL: 869 – 894MHz, UL: 824 – 849MHz
RF Power	(B13) 4 × 40W or 2 × 60W (B5) 4 × 40W or 2 × 60W
IBW/OBW	(B13) 10MHz / 10MHz (B5) 25MHz / 25MHz
Installation	Pole, Wall
Size/ Weight	14.96 x 14.96 x 9.05inch (33.2L) / 70.33 lb

SAMSUNG

AWS/PCS MACRO RADIO

DUAL-BAND AND HIGH POWER FOR MACRO COVERAGE

Samsung's future proof dual-band radio is designed to help effectively increase the coverage areas in wireless networks. This AWS/PCS 4T4R dual-band radio has 4Tx/4Rx to 2Tx/2Rx RF chains options and a total output power of 320W, making it ideal for macro sites.

Model Code RF4439d-25A



Homepage
samsungnetworks.com

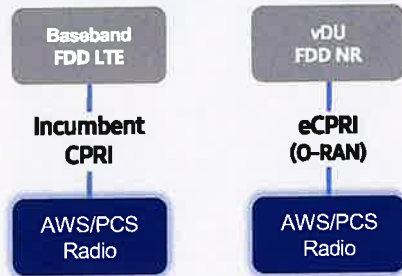


Youtube
www.youtube.com/samsung5g

Points of Differentiation

Continuous Migration

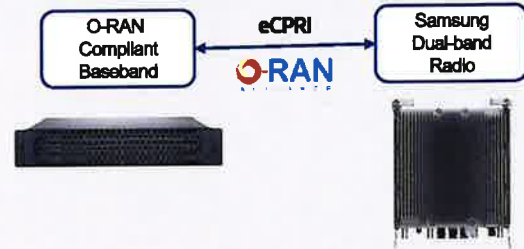
Samsung's AWS/PCS macro radio can support each incumbent CPRI interface as well as advanced eCPRI interfaces. This feature provides installable options for both legacy LTE networks and added NR networks.



O-RAN Compliant

A standardized O-RAN radio can help in implementing cost-effective networks, which are capable of sending more data without compromising additional investments.

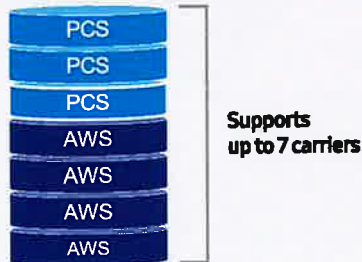
Samsung's state-of-the-art O-RAN technology will help accelerate the effort toward constructing a solid O-RAN ecosystem.



Optimum Spectrum Utilization

The number of required carriers varies according to site (region). Supporting many carriers is essential for using all frequencies that the operator has available.

The new AWS/PCS dual-band radio can support up to 3 carriers in the PCS (1.9GHz) band and 4 carriers in the AWS (2.1GHz) band, respectively.



Brand New Features in a Compact Size

Samsung's AWS/PCS macro radio offers several features, such as dual connectivity for baseband for both CDU and vDU, O-RAN capability, more carriers and an enlarged PCS spectrum, combined into an incumbent radio volume of 36.8L.



Technical Specifications

Item	Specification
Tech	LTE / NR
Brand	B25(PCS), B66(AWS)
Frequency Band	DL: 1930 – 1995MHz, UL: 1850 – 1915MHz DL: 2110 – 2200MHz, UL: 1710 – 1780MHz
RF Power	(B25) 4 × 40W or 2 × 60W (B66) 4 × 60W or 2 × 80W
IBW/OBW	(B25) 65MHz / 30MHz (B66) DL 90MHz, UL 70MHz / 60MHz
Installation	Pole, Wall
Size/Weight	14.96 x 14.96 x 10.04inch (36.8L) / 74.7lb

XGU-MB-134

Antenna Systems Group

X-pol Dual Band Antenna, 698–960/1695–2700 MHz

Split Beam 34° Horizontal Pattern

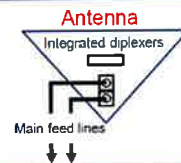
- Split beam, 2-sector MIMO Stadium Antenna reduces sector overlap
- Separate housing and reflector construction optimizes RF performance while maximizing mechanical strength
- Good passive intermodulation (PIM) performance reduces harmful interference
- Perfect for stadium/arena /special event coverage
- Includes flexible stadium bracket
- Suitable for WCS/LTE/CDMA/UMTS/GSM/WiMAX (Neutral Host)
- Optional internal diplexers reduce external cabling and improve aesthetics



Includes integrated diplexers

Reduces mainline cables

Eliminates external tower devices



Electrical specifications

Frequency band, MHz	698–824	824–960	1695–1920	1920–2200	2200–2360	2360–2700
Horizontal beamwidth, 3 dB points	36°	30°	40°	36°	31°	29°
Gain, dBi	9.2	10.6	10.7	10.5	11.2	11.7
Vertical beamwidth, 3dB points	65°	56°	65°	66°	57°	53°
Front-to-back at 180°, dB	> 20		> 28			
Polarization	+/-45°		+/-45°			
Electrical downtilt	0°		0°			
VSWR / return loss, dB, maximum	1.5:1/14		1.5:1/14			
Isolation between ports, dB, minimum	25		25			
Intermodulation (2 x 20 W), IM3, dBc, maximum	-153		-153			
Impedance, ohms	50		50			
Maximum power per connector, CW (W)	250 @ 800 MHz		125 @ 1900 MHz			

XGU-MB-134

Antenna Systems Group

Mechanical specifications

Dimensions, length/width/depth	14.6/24.3/7.1 in (372.0/616.0/180.6 mm)
Connector (quantity) type	(4 or 8) 7-16 DIN Female
Connector torque	220-265 lbf-in (23-30 Nm)
Connector location	Back
Antenna weight	15.0 lb (6.8 kg)
Bracket weight	5.0 lb (2.3 kg)
Standard bracket kit	P/N 919050 (Included)
Mechanical down tilt range	+/- 35° Lateral & +/- 55° Vertical
Radome material	High Strength Luran, UV Stabilized, ASTM D1925
Wind survival	120 mph (193 km/h)
Front wind load @ 100 mph	59.4 lbf (264.3 N) @100 mph
Equivalent flat plate @ 100 mph	1.18 sq ft (c=2) @ 100 mph

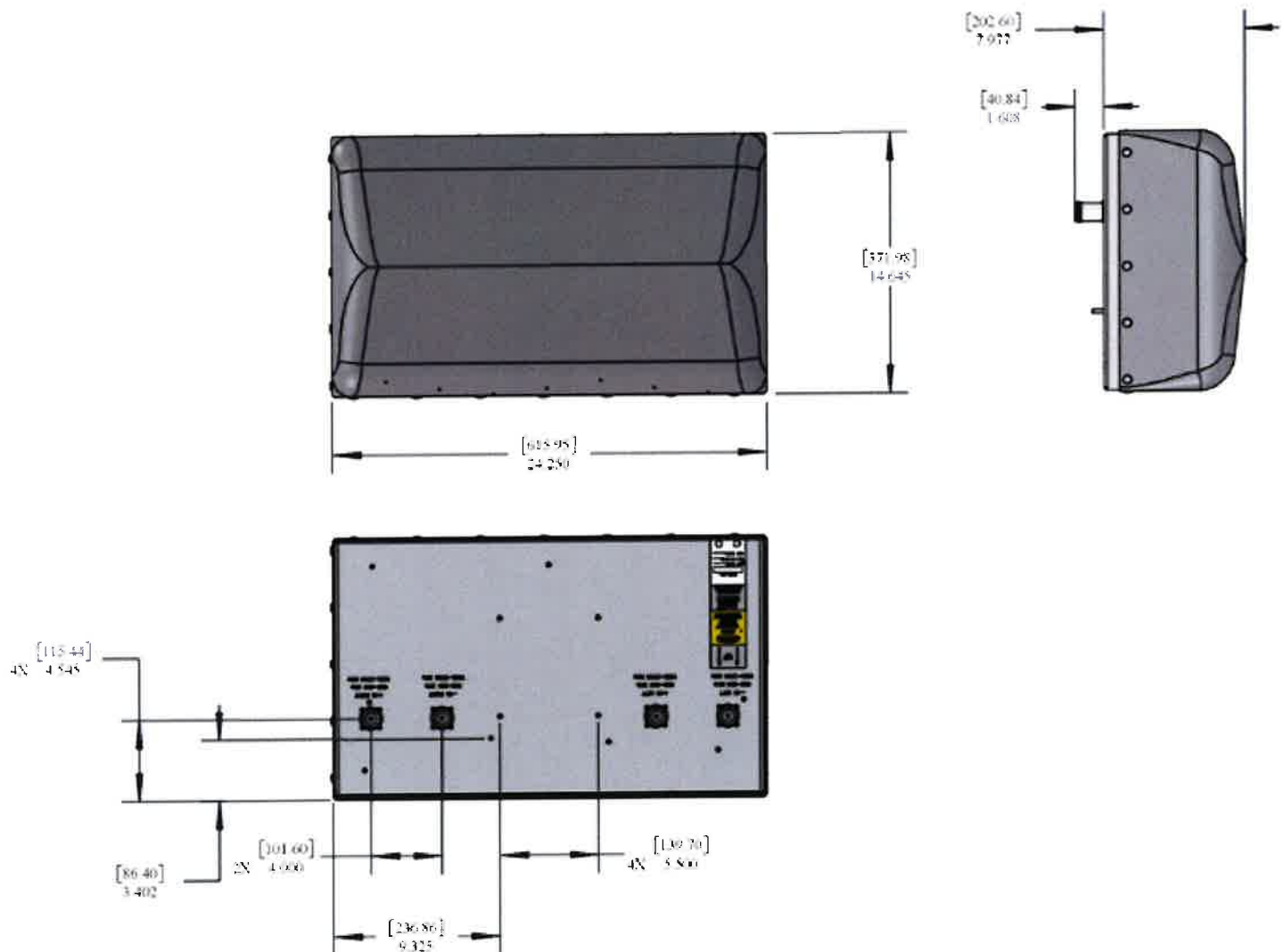
Order information

Model	Description
XGU-MB-134-I	X-Pol dual band, 0° electrical downtilt with four (4) DIN connectors, w/ internal duplexers
919055	Optional inverted mounting kit for 4.0-10.0 in. OD pole.
91900313	Optional bracket kit for extended horizontal and vertical tilt ranges.

XGU-MB-134

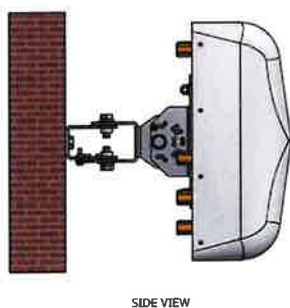
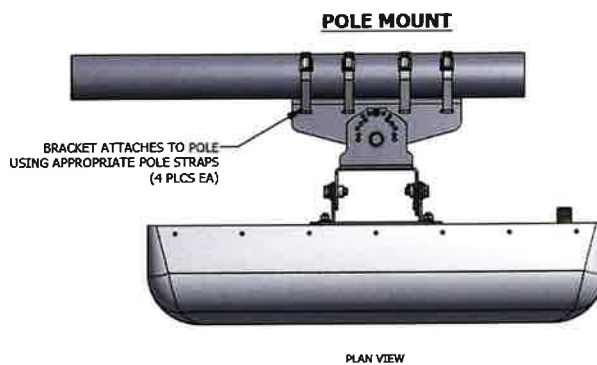
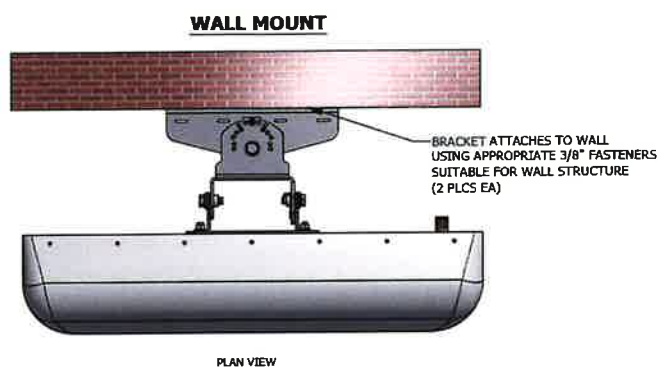
Antenna Systems Group

Mechanical Outline Drawing, XGU-MB-134-I (diplexed)

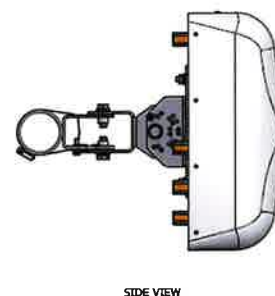


Examples of standard stadium bracket kit 919050 installation

Note: For mounting details, refer to installation drawing, P/N 919050, on the JMA website Antenna Matrix.

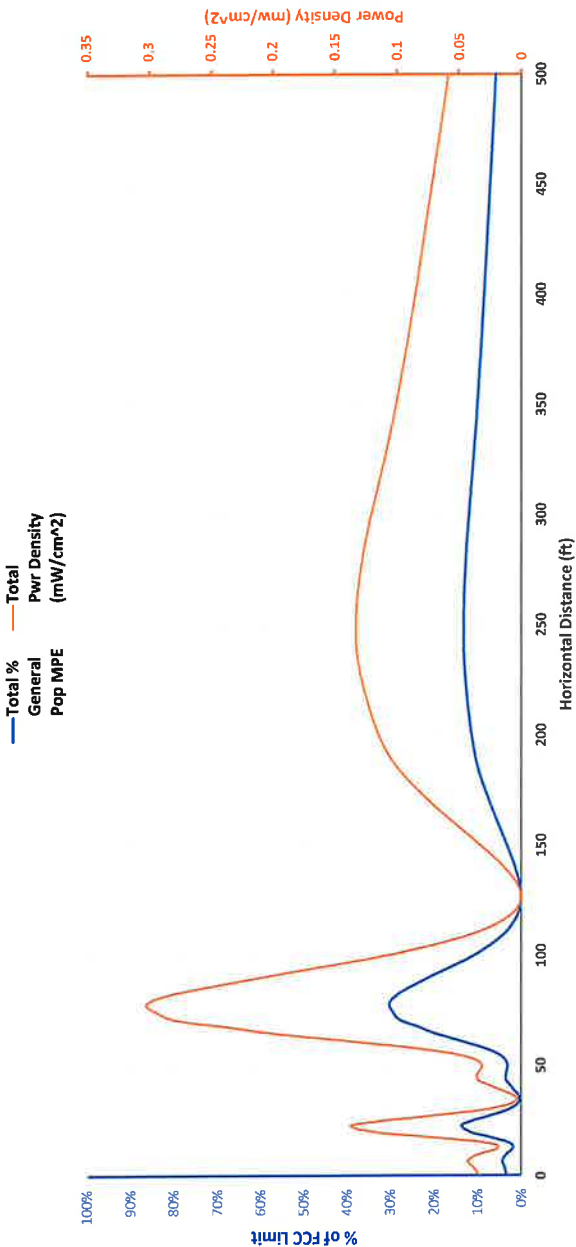


Note: If the bracket is used in applications that provide additional tilt to the antenna (e.g. slanted poles, upside down hanging, etc.), different weep holes may be required. Please consult our weep hole guide at jmawireless.com/support.



Location	Yale Bowl COW 2 CT - Part 1 of 3	
Date	10/4/2023	
Band	C-Band	
Operating Frequency (MHz)	3,700	
General Population MPE (mW/cm²)	1	
ERP Per Transmitter (Watts)	21,878	
Number of Transmitters	2	
Antenna Contourline (feet)	36	
Total ERP (Watts)	43,755	
Total ERP (dBm)	76	
Maximum % of General Population Limit	30.3%	

RF Exposure 6ft Above Ground Level Far Field Formula (per FCC OET65)

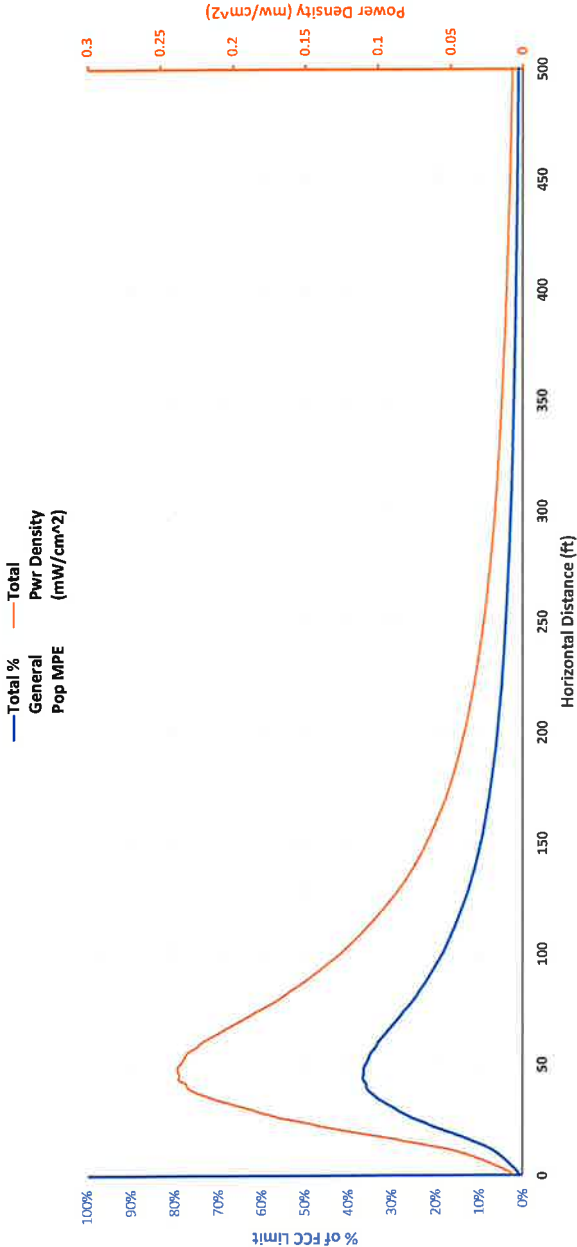


Angle Below Horizon	Power Density (mW/cm²)		Percent of General Population MPE								Distance	Total Pwr Density (mW/cm²)	Total % General Pop MPE
	C-Band		39GHz	28GHz	C-Band	CBRS	AWS	PCS	Cellular	CDMA	100 MHz		
90	0.034090345		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0	0.034090345	3.41%
89	0.034079962		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.523651948	0.034079962	3.41%
88	0.034841923		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.047623085	0.034841923	3.48%
87	0.035599198		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.572233378	0.035599198	3.56%
86	0.036350717		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	2.097804358	0.036350717	3.64%
85	0.037095382		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	2.624659966	0.037095382	3.71%
84	0.037832069		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	3.153127058	0.037832069	3.78%
83	0.037681902		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	3.683536827	0.037681902	3.77%
82	0.039276877		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	4.216225041	0.039276877	3.93%
81	0.040913935		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	4.75159321	0.040913935	4.09%

[illegible]

Location	Yale Bowl COW 2 CT - Part 2 of 3			
Date	10/4/2023			
Band	AWS	PCS	850-LTE	700
Operating Frequency (MHz)	2,145	1,970	880	746
General Population MPE (mW/cm ²)	1	1	0.5866666667	0.4973333333
ERP Per Transmitter (Watts)	335	338	351	305
Number of Transmitters	4	4	4	4
Antenna Configuration (feet)	33	33	33	33
Total ERP (Watts)	1,340	1,353	1,403	1,222
Total ERP (dBm)	61	61	61	61
Maximum % of General Population Limit	35.7%			

RF Exposure 6ft Above Ground Level
Far Field Formula (per FCC OET65)

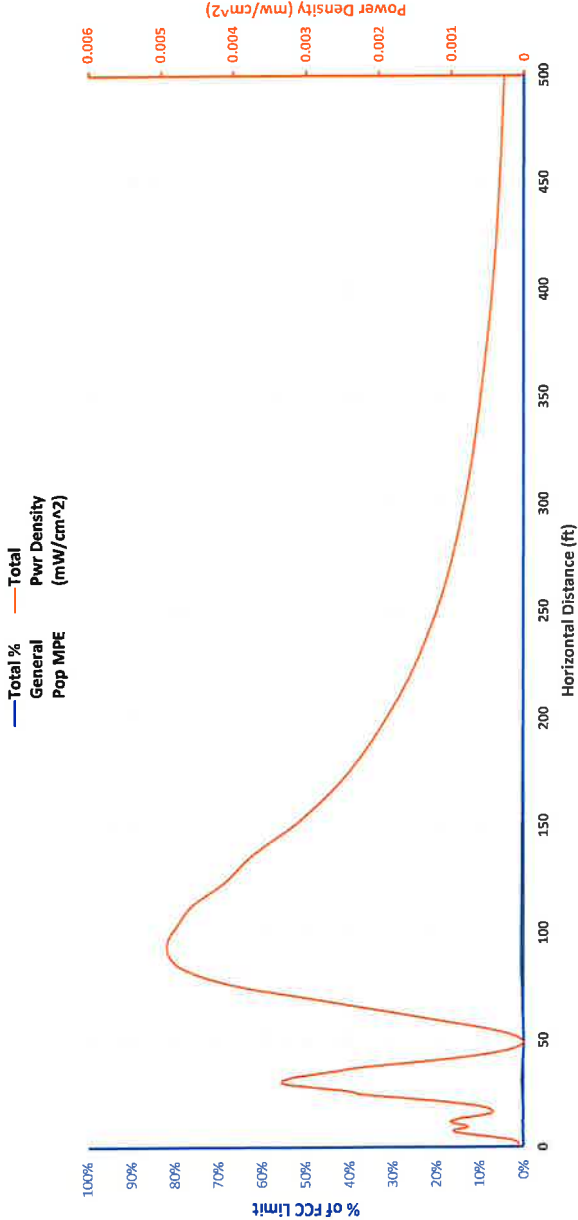


Angle Below Horizon	Power Density (mW/cm ²)				Percent of General Population MPE								Distance	Total Pwr Density (mW/cm ²)	Total % General Pop MPE	
	AWS	PCS	850-LTE	700 MHz	39GHz	28GHz	C-Band	CBRS	AWS	PCS	Cellular	CDMA				700 MHz
90	0.000562577	0.004021622	0.000776558	0.000616841	0.00%	0.00%	0.00%	0.00%	0.06%	0.40%	0.13%	0.00%	0.12%	0	0.0005977599	0.71%
89	0.000831859	0.004114044	0.001071622	0.00077632	0.00%	0.00%	0.00%	0.00%	0.08%	0.41%	0.18%	0.00%	0.16%	0.471286753	0.0006793846	0.83%
88	0.001201304	0.004206026	0.001411382	0.000976437	0.00%	0.00%	0.00%	0.00%	0.12%	0.42%	0.24%	0.00%	0.20%	0.942860776	0.0007795149	0.98%
87	0.001733768	0.004199621	0.001857731	0.00119945	0.00%	0.00%	0.00%	0.00%	0.17%	0.42%	0.32%	0.00%	0.24%	1.415010041	0.00899057	1.15%
86	0.002333801	0.004190664	0.002333757	0.001472499	0.00%	0.00%	0.00%	0.00%	0.23%	0.42%	0.40%	0.00%	0.30%	1.888023922	0.01033072	1.35%
85	0.002998269	0.004179167	0.002863271	0.001765476	0.00%	0.00%	0.00%	0.00%	0.30%	0.42%	0.49%	0.00%	0.35%	2.362193915	0.011806183	1.56%
84	0.003761932	0.004070333	0.003352762	0.002115446	0.00%	0.00%	0.00%	0.00%	0.38%	0.41%	0.57%	0.00%	0.43%	2.837814352	0.013300473	1.78%
83	0.004609816	0.003961892	0.003834206	0.002475567	0.00%	0.00%	0.00%	0.00%	0.46%	0.40%	0.65%	0.00%	0.50%	3.315183144	0.014881482	2.01%
82	0.005516807	0.003853957	0.004382072	0.002895202	0.00%	0.00%	0.00%	0.00%	0.55%	0.39%	0.75%	0.00%	0.58%	3.794602537	0.016648037	2.27%
81	0.006447956	0.003746633	0.004891182	0.00330684	0.00%	0.00%	0.00%	0.00%	0.64%	0.37%	0.83%	0.00%	0.66%	4.276379889	0.018392611	2.52%

13	0.027820074	0.017321174	0.031214045	0.024229774	0.00%	0.00%	0.00%	2.78%	1.73%	5.32%	0.00%	4.87%	116.9498486	0.100585067	14.71%
12	0.020318602	0.015493841	0.026664399	0.021180252	0.00%	0.00%	0.00%	2.43%	1.55%	4.55%	0.00%	4.26%	127.025013	0.087657173	12.79%
11	0.020482356	0.013664664	0.022981145	0.018254544	0.00%	0.00%	0.00%	2.05%	1.37%	3.92%	0.00%	3.67%	138.9029584	0.075382709	11.00%
10	0.017358919	0.012126675	0.019476658	0.015118676	0.00%	0.00%	0.00%	1.74%	1.21%	3.32%	0.00%	3.04%	153.1246091	0.064080927	9.31%
9	0.014087927	0.010305431	0.016174798	0.012555621	0.00%	0.00%	0.00%	1.41%	1.03%	2.76%	0.00%	2.52%	170.4712909	0.053123776	7.72%
8	0.011410189	0.008740009	0.012802199	0.010169133	0.00%	0.00%	0.00%	1.14%	0.87%	2.18%	0.00%	2.04%	192.1149825	0.043121529	6.24%
7	0.008953053	0.007017626	0.0100453	0.007979253	0.00%	0.00%	0.00%	0.90%	0.70%	1.71%	0.00%	1.60%	219.8973536	0.039995232	4.91%
6	0.006793867	0.00553185	0.007389977	0.00600679	0.00%	0.00%	0.00%	0.67%	0.55%	1.26%	0.00%	1.21%	256.8878403	0.02568484	3.69%
5	0.004794841	0.004120911	0.005137668	0.004176046	0.00%	0.00%	0.00%	0.48%	0.41%	0.88%	0.00%	0.84%	308.6114122	0.018229467	2.61%
4	0.00314305	0.002764205	0.003967775	0.002737426	0.00%	0.00%	0.00%	0.31%	0.28%	0.57%	0.00%	0.55%	386.1179889	0.012012455	1.72%
3	0.001769223	0.001629302	0.001895721	0.001540897	0.00%	0.00%	0.00%	0.18%	0.16%	0.32%	0.00%	0.31%	515.1906906	0.006835142	0.97%
2	0.000805046	0.000758647	0.00084297	0.000701151	0.00%	0.00%	0.00%	0.08%	0.08%	0.14%	0.00%	0.14%	773.1788386	0.003107814	0.44%
1	0.000201323	0.000194139	0.000210807	0.000175341	0.00%	0.00%	0.00%	0.02%	0.02%	0.04%	0.00%	0.04%	1546.828964	0.000781609	0.11%

Location	Yale Bowl COW 2 CT - Part 3 of 3	
Date	10/4/2023	
Band	CBRS	
Operating Frequency (MHz)	3,550	
General Population MPE (mW/cm²)	1	
ERP Per Transmitter (Watts)	53	
Number of Transmitters	4	
Antenna Centerline (feet)	30	
Total ERP (Watts)	213	
Total ERP (dBm)	53	
Maximum % of General Population Limit	0.5%	

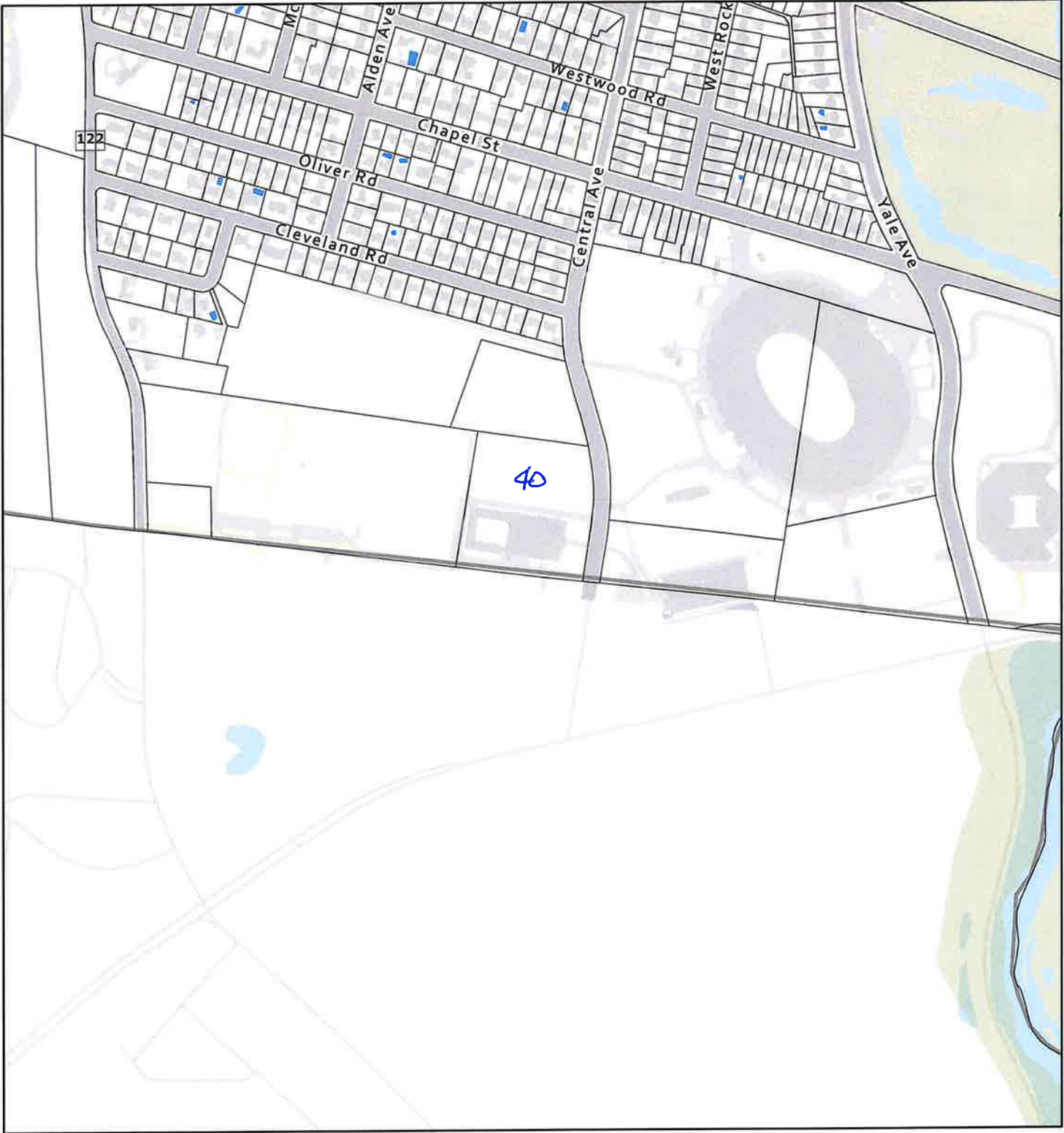
RF Exposure 6ft Above Ground Level
Far Field Formula (per FCC OET65)



Angle Below Horizon	Power Density (mW/cm²)				Percent of General Population MPE					Distance	Total Pwr Density (mW/cm²)	Total % General Pop MPE
	CBRS	39GHz	28GHz	C-Band	CBRS	AWS	PLS	Cellular	CDMA	710 MHz		
90	4.83472E-05	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	4.83472E-05	0.00%
89	5.81084E-05	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	5.81084E-05	0.01%
88	6.22074E-05	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	6.22074E-05	0.01%
87	6.81052E-05	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	6.81052E-05	0.01%
86	7.45166E-05	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	7.45166E-05	0.01%
85	8.53218E-05	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	8.53218E-05	0.01%
84	0.000102235	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.000102235	0.01%
83	0.000140564	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.000140564	0.01%
82	0.000197641	0.00%	0.00%	0.00%	0.00%	0.02%	0.00%	0.00%	0.00%	0.00%	0.000197641	0.02%
81	0.000271401	0.00%	0.00%	0.00%	0.00%	0.03%	0.00%	0.00%	0.00%	0.00%	0.000271401	0.03%

80	0.000355692	0.00%	0.00%	0.00%	0.04%	0.00%	0.00%	0.00%	0.00%	0.00%	4.231847537	0.00%	0.00%	0.00%	0.00355692	0.04%
79	0.000455265	0.00%	0.00%	0.00%	0.05%	0.00%	0.00%	0.00%	0.00%	0.00%	4.665127419	0.00%	0.00%	0.00%	0.000455265	0.05%
78	0.000569089	0.00%	0.00%	0.00%	0.06%	0.00%	0.00%	0.00%	0.00%	0.00%	5.10135748	0.00%	0.00%	0.00%	0.00569089	0.06%
77	0.000663467	0.00%	0.00%	0.00%	0.07%	0.00%	0.00%	0.00%	0.00%	0.00%	5.540836587	0.00%	0.00%	0.00%	0.000663467	0.07%
76	0.000773	0.00%	0.00%	0.00%	0.08%	0.00%	0.00%	0.00%	0.00%	0.00%	5.983872068	0.00%	0.00%	0.00%	0.000773	0.08%
75	0.000859526	0.00%	0.00%	0.00%	0.09%	0.00%	0.00%	0.00%	0.00%	0.00%	6.430780618	0.00%	0.00%	0.00%	0.000859526	0.09%
74	0.000933372	0.00%	0.00%	0.00%	0.09%	0.00%	0.00%	0.00%	0.00%	0.00%	6.881889258	0.00%	0.00%	0.00%	0.000933372	0.09%
73	0.000967307	0.00%	0.00%	0.00%	0.10%	0.00%	0.00%	0.00%	0.00%	0.00%	7.337536355	0.00%	0.00%	0.00%	0.000967307	0.10%
72	0.000956718	0.00%	0.00%	0.00%	0.10%	0.00%	0.00%	0.00%	0.00%	0.00%	7.79807271	0.00%	0.00%	0.00%	0.000956718	0.10%
71	0.00090305	0.00%	0.00%	0.00%	0.09%	0.00%	0.00%	0.00%	0.00%	0.00%	8.263862719	0.00%	0.00%	0.00%	0.00090305	0.09%
70	0.000813473	0.00%	0.00%	0.00%	0.08%	0.00%	0.00%	0.00%	0.00%	0.00%	8.735285622	0.00%	0.00%	0.00%	0.000813473	0.08%
69	0.000766787	0.00%	0.00%	0.00%	0.08%	0.00%	0.00%	0.00%	0.00%	0.00%	9.212736841	0.00%	0.00%	0.00%	0.000766787	0.08%
68	0.000773933	0.00%	0.00%	0.00%	0.08%	0.00%	0.00%	0.00%	0.00%	0.00%	9.69662942	0.00%	0.00%	0.00%	0.000773933	0.08%
67	0.000836419	0.00%	0.00%	0.00%	0.08%	0.00%	0.00%	0.00%	0.00%	0.00%	10.18739559	0.00%	0.00%	0.00%	0.000836419	0.08%
66	0.0009033	0.00%	0.00%	0.00%	0.09%	0.00%	0.00%	0.00%	0.00%	0.00%	10.68548845	0.00%	0.00%	0.00%	0.0009033	0.09%
65	0.000974817	0.00%	0.00%	0.00%	0.10%	0.00%	0.00%	0.00%	0.00%	0.00%	11.19138338	0.00%	0.00%	0.00%	0.000974817	0.10%
64	0.001003903	0.00%	0.00%	0.00%	0.10%	0.00%	0.00%	0.00%	0.00%	0.00%	11.70558213	0.00%	0.00%	0.00%	0.001003903	0.10%
63	0.000986582	0.00%	0.00%	0.00%	0.10%	0.00%	0.00%	0.00%	0.00%	0.00%	12.22861079	0.00%	0.00%	0.00%	0.000986582	0.10%
62	0.000925212	0.00%	0.00%	0.00%	0.09%	0.00%	0.00%	0.00%	0.00%	0.00%	12.76102636	0.00%	0.00%	0.00%	0.000925212	0.09%
61	0.000866982	0.00%	0.00%	0.00%	0.09%	0.00%	0.00%	0.00%	0.00%	0.00%	13.30341723	0.00%	0.00%	0.00%	0.000866982	0.09%
60	0.000757587	0.00%	0.00%	0.00%	0.08%	0.00%	0.00%	0.00%	0.00%	0.00%	13.85640646	0.00%	0.00%	0.00%	0.000757587	0.08%
59	0.000631688	0.00%	0.00%	0.00%	0.06%	0.00%	0.00%	0.00%	0.00%	0.00%	14.42065486	0.00%	0.00%	0.00%	0.000631688	0.06%
58	0.000514295	0.00%	0.00%	0.00%	0.05%	0.00%	0.00%	0.00%	0.00%	0.00%	14.99686445	0.00%	0.00%	0.00%	0.000514295	0.05%
57	0.000438081	0.00%	0.00%	0.00%	0.04%	0.00%	0.00%	0.00%	0.00%	0.00%	15.58578224	0.00%	0.00%	0.00%	0.000438081	0.04%
56	0.000418331	0.00%	0.00%	0.00%	0.04%	0.00%	0.00%	0.00%	0.00%	0.00%	16.1882044	0.00%	0.00%	0.00%	0.000418331	0.04%
55	0.000417927	0.00%	0.00%	0.00%	0.04%	0.00%	0.00%	0.00%	0.00%	0.00%	16.80498092	0.00%	0.00%	0.00%	0.000417927	0.04%
54	0.000446979	0.00%	0.00%	0.00%	0.04%	0.00%	0.00%	0.00%	0.00%	0.00%	17.43702067	0.00%	0.00%	0.00%	0.000446979	0.04%
53	0.00048873	0.00%	0.00%	0.00%	0.05%	0.00%	0.00%	0.00%	0.00%	0.00%	18.0852972	0.00%	0.00%	0.00%	0.00048873	0.05%
52	0.000572052	0.00%	0.00%	0.00%	0.06%	0.00%	0.00%	0.00%	0.00%	0.00%	18.75085504	0.00%	0.00%	0.00%	0.000572052	0.06%
51	0.000684505	0.00%	0.00%	0.00%	0.07%	0.00%	0.00%	0.00%	0.00%	0.00%	19.4348168	0.00%	0.00%	0.00%	0.000684505	0.07%
50	0.000837297	0.00%	0.00%	0.00%	0.08%	0.00%	0.00%	0.00%	0.00%	0.00%	20.138393115	0.00%	0.00%	0.00%	0.000837297	0.08%
49	0.001023131	0.00%	0.00%	0.00%	0.10%	0.00%	0.00%	0.00%	0.00%	0.00%	20.86288171	0.00%	0.00%	0.00%	0.001023131	0.10%
48	0.001220446	0.00%	0.00%	0.00%	0.12%	0.00%	0.00%	0.00%	0.00%	0.00%	21.60969706	0.00%	0.00%	0.00%	0.001220446	0.12%
47	0.00148808	0.00%	0.00%	0.00%	0.15%	0.00%	0.00%	0.00%	0.00%	0.00%	22.38036207	0.00%	0.00%	0.00%	0.00148808	0.15%
46	0.001771086	0.00%	0.00%	0.00%	0.18%	0.00%	0.00%	0.00%	0.00%	0.00%	23.1765306	0.00%	0.00%	0.00%	0.001771086	0.18%
45	0.002057508	0.00%	0.00%	0.00%	0.21%	0.00%	0.00%	0.00%	0.00%	0.00%	24	0.00%	0.00%	0.00%	0.002057508	0.21%
44	0.002279891	0.00%	0.00%	0.00%	0.23%	0.00%	0.00%	0.00%	0.00%	0.00%	24.85272753	0.00%	0.00%	0.00%	0.002279891	0.23%
43	0.002354714	0.00%	0.00%	0.00%	0.24%	0.00%	0.00%	0.00%	0.00%	0.00%	25.73684904	0.00%	0.00%	0.00%	0.002354714	0.24%
42	0.002543275	0.00%	0.00%	0.00%	0.25%	0.00%	0.00%	0.00%	0.00%	0.00%	26.65470036	0.00%	0.00%	0.00%	0.002543275	0.25%
41	0.002807096	0.00%	0.00%	0.00%	0.28%	0.00%	0.00%	0.00%	0.00%	0.00%	27.60884177	0.00%	0.00%	0.00%	0.002807096	0.28%
40	0.003093901	0.00%	0.00%	0.00%	0.31%	0.00%	0.00%	0.00%	0.00%	0.00%	28.60208622	0.00%	0.00%	0.00%	0.003093901	0.31%
39	0.003327477	0.00%	0.00%	0.00%	0.33%	0.00%	0.00%	0.00%	0.00%	0.00%	29.63753176	0.00%	0.00%	0.00%	0.003327477	0.33%
38	0.00333469	0.00%	0.00%	0.00%	0.33%	0.00%	0.00%	0.00%	0.00%	0.00%	30.71859917	0.00%	0.00%	0.00%	0.00333469	0.33%
37	0.0032606	0.00%	0.00%	0.00%	0.33%	0.00%	0.00%	0.00%	0.00%	0.00%	31.84907572	0.00%	0.00%	0.00%	0.0032606	0.33%
36	0.003110347	0.00%	0.00%	0.00%	0.31%	0.00%	0.00%	0.00%	0.00%	0.00%	33.03316609	0.00%	0.00%	0.00%	0.003110347	0.31%
35	0.002828486	0.00%	0.00%	0.00%	0.28%	0.00%	0.00%	0.00%	0.00%	0.00%	34.27555216	0.00%	0.00%	0.00%	0.002828486	0.28%
34	0.002567407	0.00%	0.00%	0.00%	0.26%	0.00%	0.00%	0.00%	0.00%	0.00%	35.58146324	0.00%	0.00%	0.00%	0.002567407	0.26%
33	0.002325889	0.00%	0.00%	0.00%	0.23%	0.00%	0.00%	0.00%	0.00%	0.00%	36.95675913	0.00%	0.00%	0.00%	0.002325889	0.23%
32	0.001874092	0.00%	0.00%	0.00%	0.19%	0.00%	0.00%	0.00%	0.00%	0.00%	38.4080287	0.00%	0.00%	0.00%	0.001874092	0.19%
31	0.001374201	0.00%	0.00%	0.00%	0.14%	0.00%	0.00%	0.00%	0.00%	0.00%	39.94270758	0.00%	0.00%	0.00%	0.001374201	0.14%
30	0.000896007	0.00%	0.00%	0.00%	0.09%	0.00%	0.00%	0.00%	0.00%	0.00%	41.56921938	0.00%	0.00%	0.00%	0.000896007	0.09%
29	0.000496037	0.00%	0.00%	0.00%	0.05%	0.00%	0.00%	0.00%	0.00%	0.00%	43.29714613	0.00%	0.00%	0.00%	0.000496037	0.05%
28	0.000207773	0.00%	0.00%	0.00%	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%	45.13743517	0.00%	0.00%	0.00%	0.000207773	0.02%
27	4.66085E-05	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	47.10265213	0.00%	0.00%	0.00%	4.66085E-05	0.00%
26	1.04245E-05	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	49.2072922	0.00%	0.00%	0.00%	1.04245E-05	0.00%
25	9.91444E-05	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	51.46816609	0.00%	0.00%	0.00%	9.91444E-05	0.01%
24	0.000333425	0.00%	0.00%	0.00%	0.03%	0.00%	0.00%	0.00%	0.00%	0.00%	53.90488257	0.00%	0.00%	0.00%	0.000333425	0.03%
23	0.000721319	0.00%	0.00%	0.00%	0.07%	0.00%	0.00%	0.00%	0.00%	0.00%	56.54045678	0.00%	0.00%	0.00%	0.000721319	0.07%
22	0.001234589	0.00%	0.00%	0.00%	0.12%	0.00%	0.00%	0.00%	0.00%	0.00%	59.40208448	0.00%	0.00%	0.00%	0.001234589	0.12%
21	0.001749967	0.00%	0.00%	0.00%	0.17%	0.00%	0.00%	0.00%	0.00%	0.00%	62.52213755	0.00%	0.00%	0.00%	0.001749967	0.17%
20	0.002357626	0.00%	0.00%	0.00%	0.24%	0.00%	0.00%	0.00%	0.00%	0.00%	65.93945807	0.00%	0.00%	0.00%	0.002357626	0.24%
19	0.003017556	0.00%	0.00%	0.00%	0.30%	0.00%	0.00%	0.00%	0.00%	0.00%	69.70106106	0.00%	0.00%	0.00%	0.003017556	0.30%
18	0.003752634	0.00%	0.00%	0.00%	0.38%	0.00%	0.00%	0.00%	0.00%	0.00%	73.86440489	0.00%	0.00%	0.00%	0.003752634	0.38%
17	0.004327551	0.00%	0.00%	0.00%	0.43%	0.00%	0.00%	0.00%	0.00%	0.00%	78.50046284	0.00%	0.00%	0.00%	0.004327551	0.43%
16	0.004732032	0.00%	0.00%	0.00%	0.47%	0.00%	0.00%	0.00%	0.00%	0.00%	83.69794665	0.00%	0.00%	0.00%	0.004732032	0.47%
15	0.004901894	0.00%	0.00%	0.00%	0.49%	0.00%	0.00%	0.00%	0.00%	0.00%	89.56921938	0.00%	0.00%	0.00%	0.004901894	0.49%
14	0.004917245	0.00%	0.00%	0.00%	0.49%	0.00%	0.00%	0.00%	0.00%	0.00%	96.2587424	0.00%	0.00%	0.00%	0.004917245	0.49%

My Map



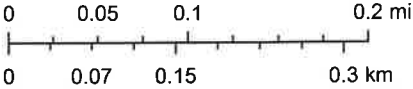
10/9/2023, 10:33:51 AM



NH Parcels Web

New Haven Web Parcels

1:9,028



40 CENTRAL AV

Location 40 CENTRAL AV

Mblu 377/ 1080/ 00500/ /

Acct# 377 1080 00500

Owner YALE UNIVERSITY

Assessment \$1,276,870

Appraisal \$1,824,100

PID 23842

Building Count 1

Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2022	\$0	\$1,824,100	\$1,824,100
Assessment			
Valuation Year	Improvements	Land	Total
2022	\$0	\$1,276,870	\$1,276,870

Owner of Record

Owner YALE UNIVERSITY
Co-Owner
Address YALE U CONTROLLER FRA
PO BOX 208372
NEW HAVEN, CT 06520-8372

Sale Price \$0
Certificate
Book & Page 0/0
Sale Date
Instrument

Ownership History

Ownership History					
Owner	Sale Price	Certificate	Book & Page	Instrument	Sale Date
YALE UNIVERSITY	\$0		0/0		

Building Information

Building 1 : Section 1

Year Built:
Living Area: 0
Replacement Cost: \$0
Building Percent Good:
Replacement Cost
Less Depreciation: \$0

ATTACHMENT 3



Verizon/Yale COWs

Certificate of Mailing — Firm

Name and Address of Sender Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103		TOTAL NO. of Pieces Listed by Sender 3	TOTAL NO. of Pieces Received at Post Office™ 3	Affix Stamp Here Postmark with Date of Receipt. neopost® 10/10/2023 US POSTAGE \$003.19 ZIP 06103 041L12203937			
USPS® Tracking Number Firm-specific Identifier		Postmaster, per (name of receiving employee) A					
1.		Address (Name, Street, City, State, and ZIP Code™) Justin Ellicker, Mayor City of New Haven 165 Church Street New Haven, CT 06510 Laura Brown, Executive Director of City Plan City of New Haven 165 Church Street New Haven, CT 06510 Yale University PO Box 208372 New Haven, CT 06052-8372		Postage	Fee	Special Handling	Parcel Airlift
2.							
3.							
4.							
5.							
6.							