



CISCO CW-ANT-T-O3-N

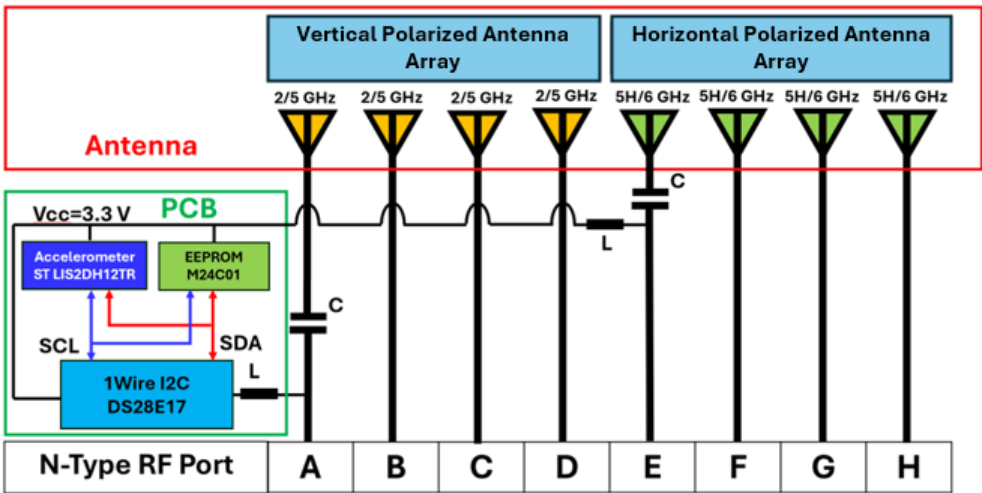
8-Port Wi-Fi 7 Omnidirectional Antenna

The CW-ANT-T-O3-N is an 8-port, omnidirectional outdoor antenna with triband 2.4/5/6 GHz operating frequency ranges, enabling support for a wide range of deployments. It includes a 3ft long LMR-200 cable connecting internal components to the external N-male connectors. With an IP67 rating, it works in both indoor and outdoor environments.

The antenna is integrated with a 1-wire protocol that accomplishes identifying the antenna and determines the antenna orientations. The antenna enclosure supports an articulating wall/mast mount and a flush mount, which allows the antenna to be mounted to a horizontal surface

ELECTRICAL																	
TE P/N		L001294-01															
Cisco P/N		07-101022-01															
Cisco PID		CW-ANT-T-O3-N															
Self-Identifying Circuitry		Yes															
Operating Frequency (MHz)		2400 – 2500				5150 – 5850				5150 – 5850				5925 – 7125			
Port		A	B	C	D	A	B	C	D	E	F	G	H	E	F	G	H
Nominal Input Impedance (ohm)		50															
VSWR		<2:1															
Peak Gain – Avg (dBi)		4.7	4.6	3.8	3.9	4.4	4.8	4.6	4.5	3.9	4.3	3.5	3.6	4.3	4.3	3.3	3.2
Peak Gain – Max (dBi)		5.4	5.3	4.4	4.6	6.0	6.1	6.1	5.1	4.7	5.4	4.3	4.4	4.9	4.8	4.4	3.7
Total Efficiency – Avg (%)		59	60	61	61	51	54	53	53	50	54	51	53	47	49	47	47
Polarization		Vertical								Horizontal							
3-dB Beamwidth – Avg (deg)	Azimuth Plane	Omnidirectional															
	Elevation Plane – Phi = 0°	54	56	61	60	26	26	25	26	24	22	29	29	22	22	20	22
	Elevation Plane – Phi = 90°	63	68	63	63	26	28	23	23	26	26	27	27	27	26	24	23
6-dB Beamwidth – Avg (deg)	Elevation Plane – Phi = 0°	73	76	79	78	37	38	35	36	32	31	41	42	30	30	34	35
	Elevation Plane – Phi = 90°	90	90	87	83	38	39	34	34	39	40	38	37	36	36	32	32

SYSTEM BLOCK DIAGRAM



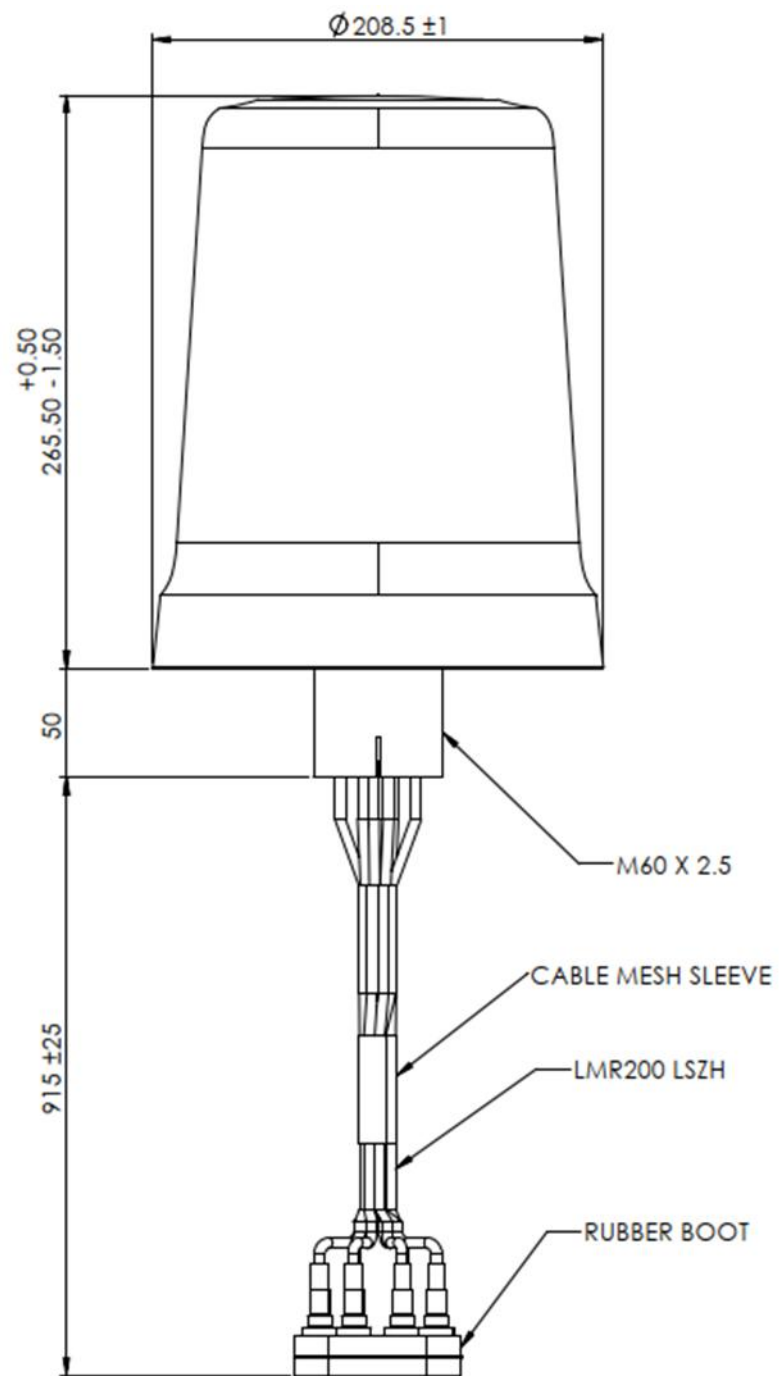
PORT	COLOUR BAND
A	PURPLE
B	ORANGE
C	ORANGE
D	ORANGE

PORT	COLOUR BAND
E	CYAN
F	BURGUNDY
G	BURGUNDY
H	BURGUNDY

MECHANICAL	
Antenna Height	10.45 in (265.5 mm)
Antenna Diameter	8.21 in (208.5 mm)
Antenna Weight	3.47 lb (1.57 kg)
Cable Type	LMR-200 (LSZH)
Cable Length	3 ft (915 mm)
Radome Material	Polycarbonate PCR
Color	Cisco Medium Gray
RF Connector	N-Male
Mounting	Ceiling/Articulate Mount
Mounting Weight	475g

ENVIRONMENTAL	
Operating Temperature	-40°F to 149°F (-40°C to 65°C)
Ingress Protection	IP67

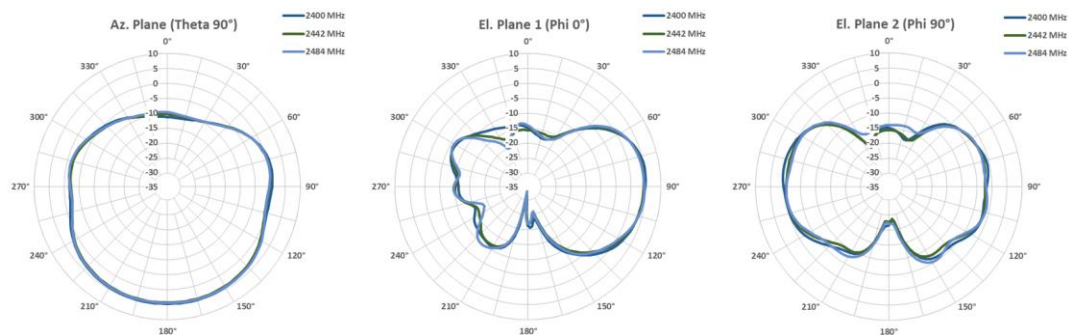
ANTENNA OUTLINE



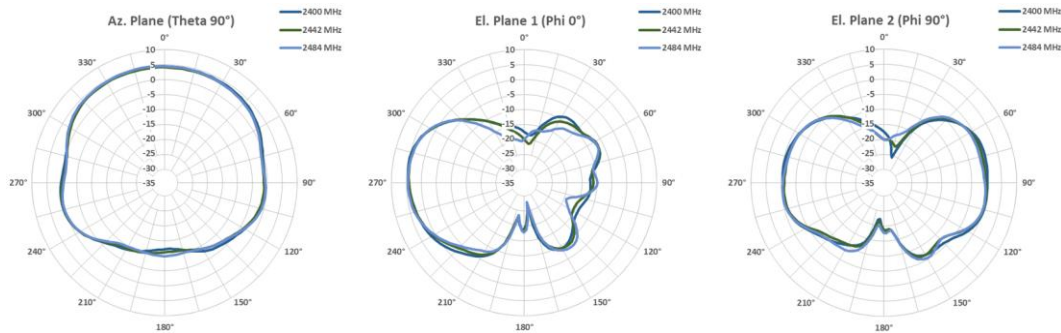
RADIATION PATTERN (2.4/5 GHZ)

2400 – 2500 MHz

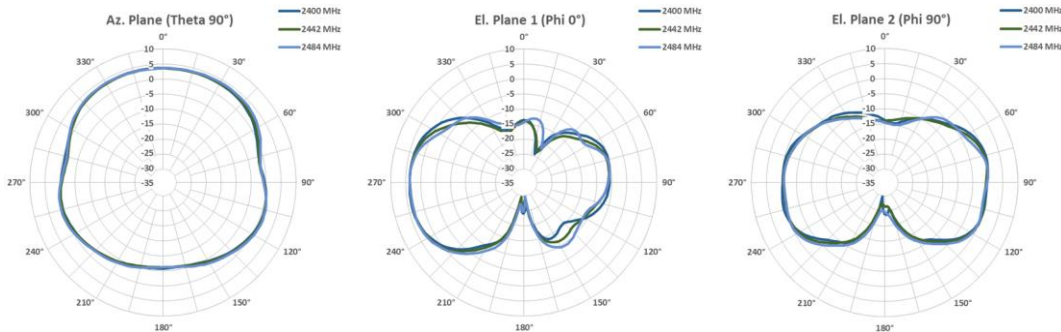
Port A



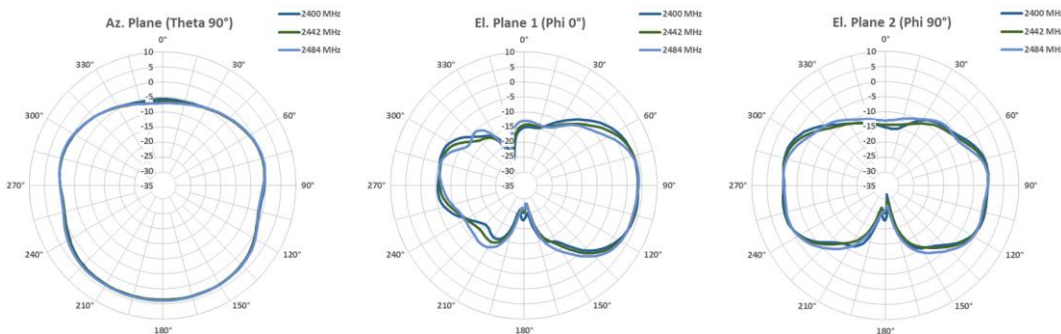
Port B



Port C

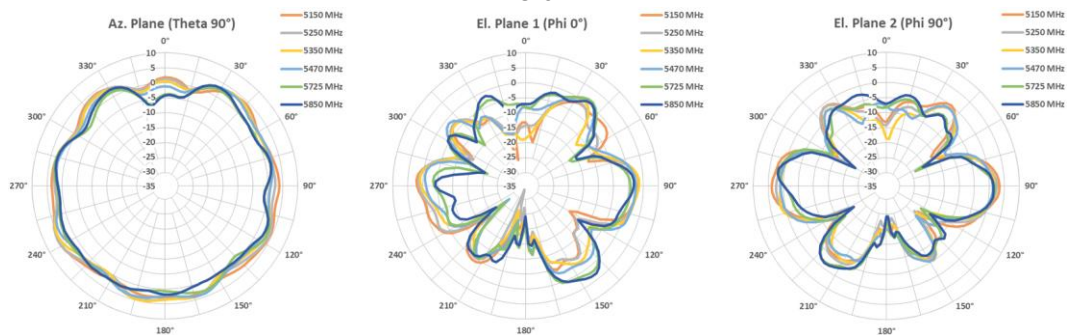


Port D

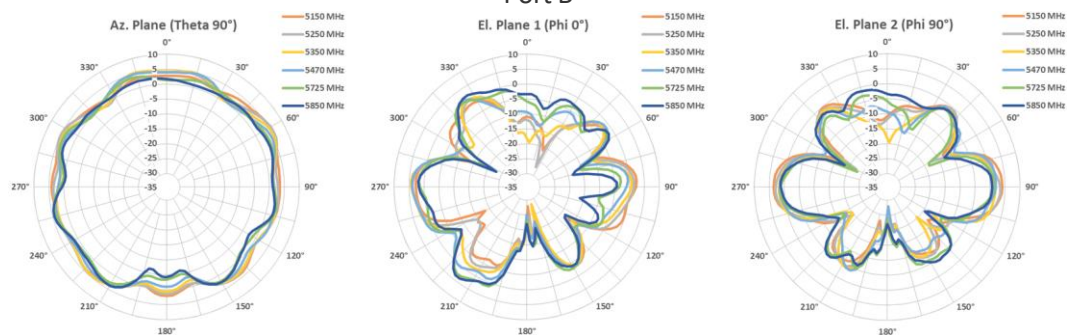


5150 – 5850 MHz

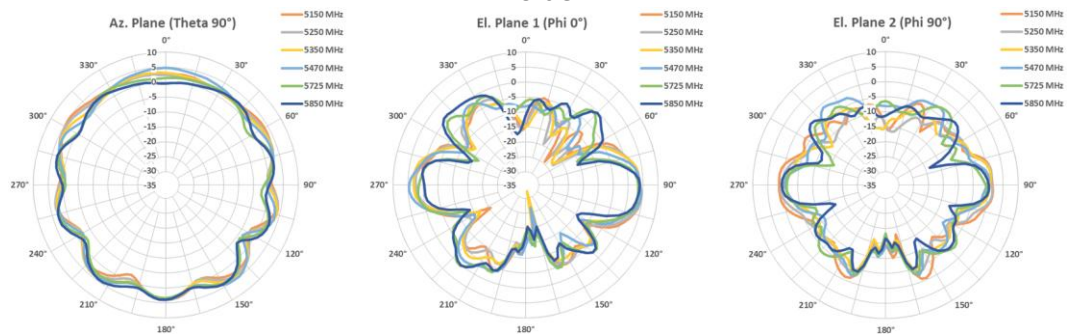
Port A



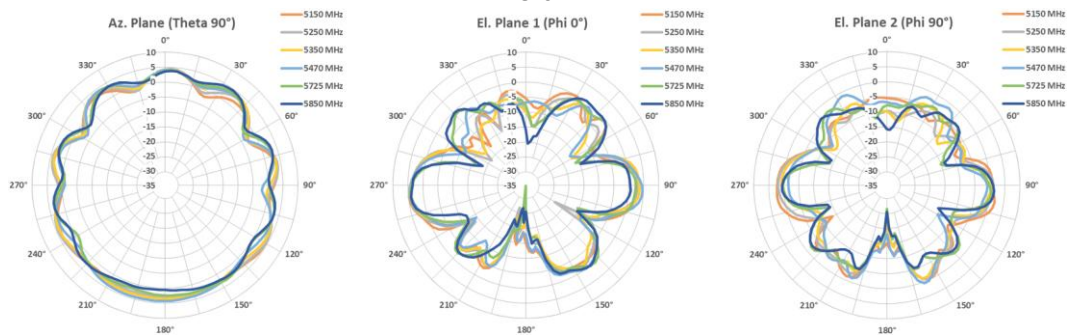
Port B



Port C



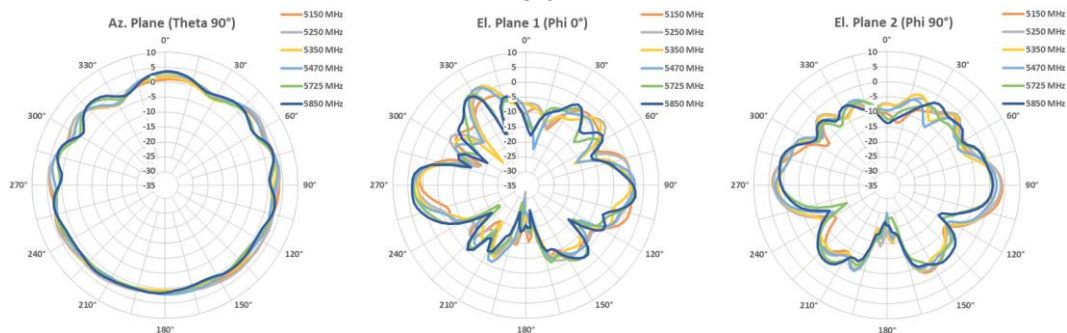
Port D



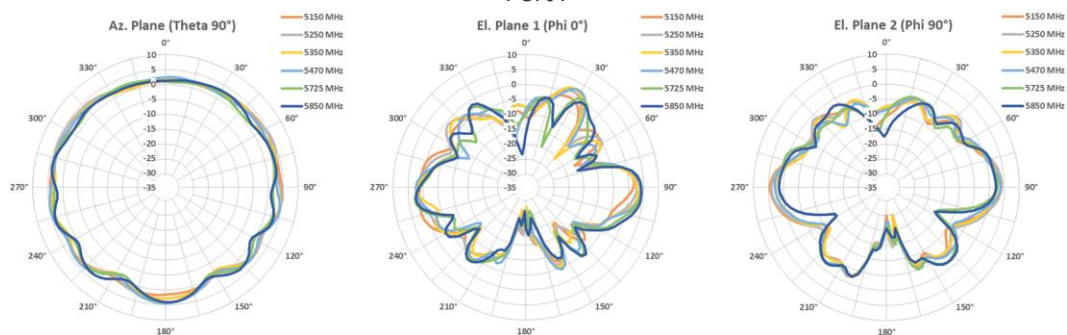
RADIATION PATTERN (5/6 GHZ)

5150 – 5850 MHz

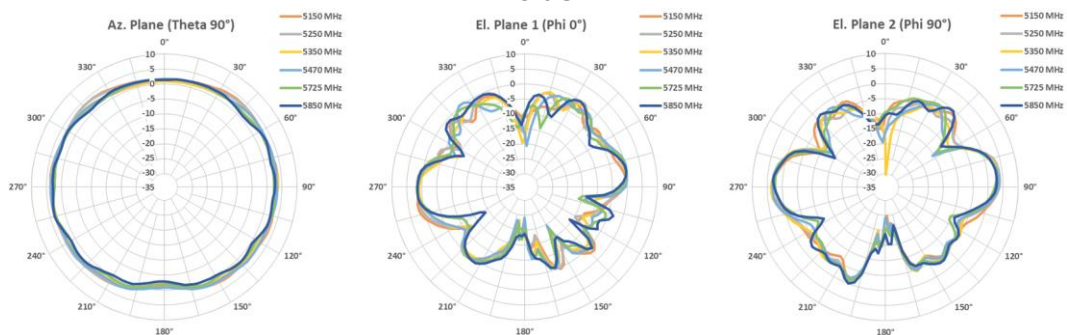
Port E



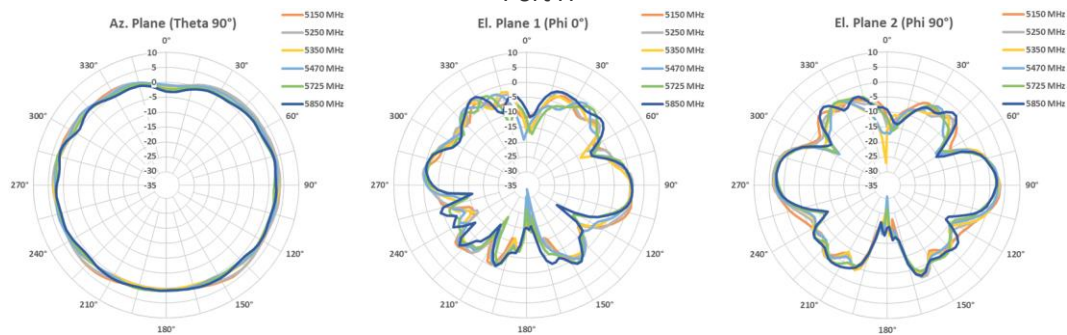
Port F



Port G

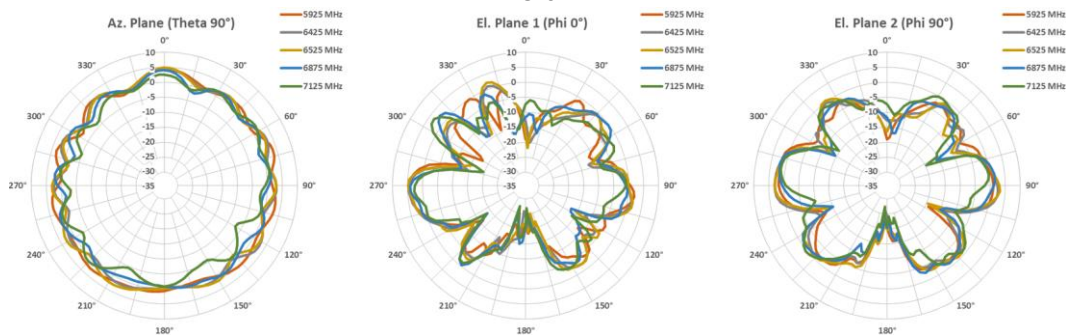


Port H

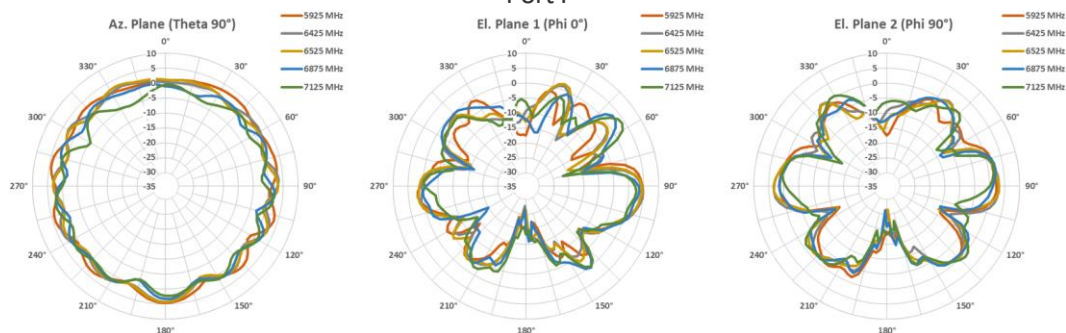


5925 – 7125 MHz

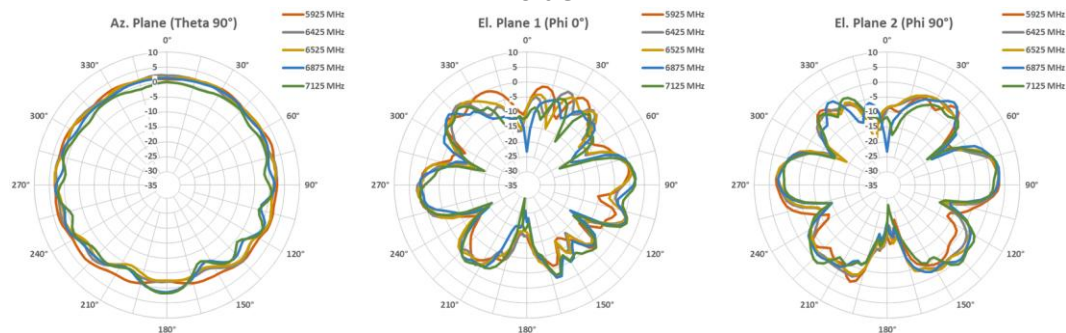
Port E



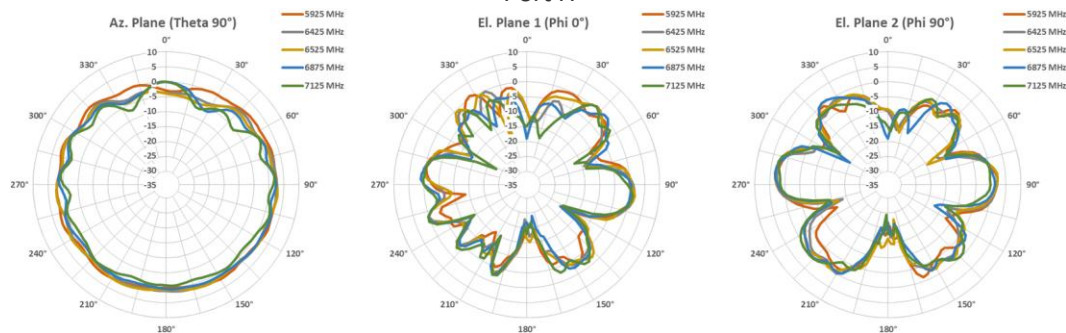
Port F



Port G



Port H



EPROM DATA FIELDS

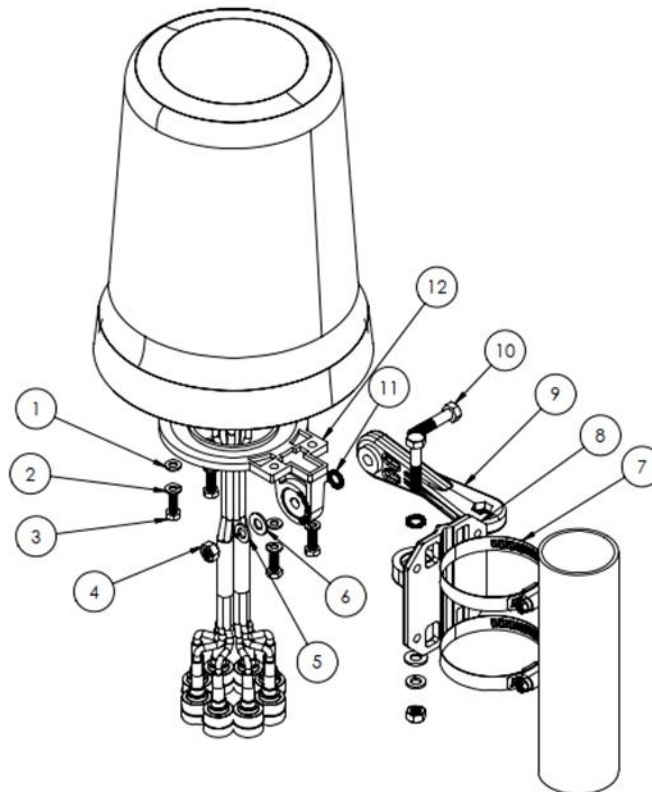
EEPROM DATA FIELDS					
BYTE	DATA FIELD	RANGE	Hexadecimal Value	Decimal	Description
0	Smart Antenna Family	00000100	06	6	SIA WiFi 7 Family, v06
1	Smart Antenna Version	00000011	05	5	CW-ANT-7-05-A
2	Smart Antenna Type	00000111	07	7	Omnidirectional, Outdoor, 8Port N-Type Connectors
3	Smart Antenna - Number of Antenna Elements, N	00001000	08	8	8 Antenna Elements
4	Smart Antenna - Primary, Max Gain Overall - 5GHz - NB	00000000	05	5	5 dBi
5	Smart Antenna - Primary, Max Gain Overall - 5GHz	00000000	05	5	5 dBi
6	Smart Antenna - Freq. Band and Features	11111111	FF	255	
7	Smart Antenna - Beam Width, Elevation - 5GHz - NB	11111111	FF	255	
8	Smart Antenna - Beam Width, Elevation - 5GHz	11111111	FF	255	
9	Smart Antenna - Beam Width, Azimuth - 5GHz - NB	11111111	FF	255	
10	Smart Antenna - Beam Width, Azimuth - 5GHz	11111111	FF	255	
11	Smart Antenna - Side-lobe Gain for Elevation Angles > 30° (Outdoor 5GHz - UNI 1 [5.150 - 5.250 GHz])	11111111	FF	255	
12	Smart Antenna - Side-lobe Gain for Elevation Angles > 30° (Reserved for Outdoor 20GHz)	11111111	FF	255	
13	Down-Tilt Angle, Certain Channels DFS	11111111	FF	255	
14	Smart Antenna - Secondary, Max Gain Overall - 5GHz - WB	11111111	FF	255	
15	Smart Antenna - Secondary, Max Gain Overall - 5GHz (BLE/OT)	11111111	FF	255	
16	Smart Antenna - Side-lobe Gain for Elevation Angles > 30° (Outdoor 5GHz - UNI 1 - WB)	11111111	FF	255	
17	Reserved	11111111	FF	255	
18	Reserved	11111111	FF	255	
19	Antenna Element 1, Features	11111111	FF	255	
20	Antenna Element 1, 6GHz, Gain, Frequency Band	11111111	FF	255	
21	Antenna Element 1, 5GHz, Gain and SB, 35GHz, Gain	11111111	FF	255	
22	Antenna Element 2, Features	11111111	FF	255	
23	Antenna Element 2, 6GHz, Gain, Frequency Band	11111111	FF	255	
24	Antenna Element 2, 5GHz, Gain and SB, 35GHz, Gain	11111111	FF	255	
25	Antenna Element 3, Features	11111111	FF	255	
26	Antenna Element 3, 6GHz, Gain, Frequency Band	11111111	FF	255	
27	Antenna Element 3, 5GHz, Gain and SB, 35GHz, Gain	11111111	FF	255	
28	Antenna Element 4, Features	11111111	FF	255	
29	Antenna Element 4, 6GHz, Gain, Frequency Band	11111111	FF	255	
30	Antenna Element 4, 5GHz, Gain and SB, 35GHz, Gain	11111111	FF	255	
31	Antenna Element 5, Features	11111111	FF	255	
32	Antenna Element 5, 6GHz, Gain, Frequency Band	11111111	FF	255	
33	Antenna Element 5, 5GHz, Gain and SB, 35GHz, Gain	11111111	FF	255	
34	Antenna Element 6, Features	11111111	FF	255	
35	Antenna Element 6, 6GHz, Gain, Frequency Band	11111111	FF	255	
36	Antenna Element 6, 5GHz, Gain and SB, 35GHz, Gain	11111111	FF	255	
37	Antenna Element 7, Features	11111111	FF	255	
38	Antenna Element 7, 6GHz, Gain, Frequency Band	11111111	FF	255	
39	Antenna Element 7, 5GHz, Gain and SB, 35GHz, Gain	11111111	FF	255	
40	Antenna Element 8, Features	11111111	FF	255	
41	Antenna Element 8, 6GHz, Gain, Frequency Band	11111111	FF	255	
42	Antenna Element 8, 5GHz, Gain and SB, 35GHz, Gain	11111111	FF	255	
43	Antenna Element 9, Features	11111111	FF	255	
44	Antenna Element 9, 6GHz, Gain, Frequency Band	11111111	FF	255	
45	Antenna Element 9, 5GHz, Gain and SB, 35GHz, Gain	11111111	FF	255	
46	Antenna Element 10, Features	11111111	FF	255	
47	Antenna Element 10, 6GHz, Gain, Frequency Band	11111111	FF	255	
48	Antenna Element 10, 5GHz, Gain and SB, 35GHz, Gain	11111111	FF	255	
49	Antenna Element 11, Features	11111111	FF	255	
50	Antenna Element 11, 6GHz, Gain, Frequency Band	11111111	FF	255	
51	Antenna Element 11, 5GHz, Gain and SB, 35GHz, Gain	11111111	FF	255	
52	Antenna Element 12, Features	11111111	FF	255	
53	Antenna Element 12, 6GHz, Gain, Frequency Band	11111111	FF	255	
54	Antenna Element 12, 5GHz, Gain and SB, 35GHz, Gain	11111111	FF	255	
55	Antenna Element 13, Features	11111111	FF	255	
56	Antenna Element 13, 6GHz, Gain, Frequency Band	11111111	FF	255	
57	Antenna Element 13, 5GHz, Gain and SB, 35GHz, Gain	11111111	FF	255	
58	Antenna Element 14, Features	11111111	FF	255	
59	Antenna Element 14, 6GHz, Gain, Frequency Band	11111111	FF	255	
60	Antenna Element 14, 5GHz, Gain and SB, 35GHz, Gain	11111111	FF	255	
61	Antenna Element 15, Features	11111111	FF	255	
62	Antenna Element 15, 6GHz, Gain, Frequency Band	11111111	FF	255	
63	Antenna Element 15, 5GHz, Gain and SB, 35GHz, Gain	11111111	FF	255	
64	Antenna Element 16, Features	11111111	FF	255	
65	Antenna Element 16, 6GHz, Gain, Frequency Band	11111111	FF	255	
66	Antenna Element 16, 5GHz, Gain and SB, 35GHz, Gain	11111111	FF	255	
67	Antenna Element 17, Features	11111111	FF	255	
68	Antenna Element 17, 6GHz, Gain, Frequency Band	11111111	FF	255	
69	Antenna Element 17, 5GHz, Gain and SB, 35GHz, Gain	11111111	FF	255	
70	Antenna Element 18, Features	11111111	FF	255	
71	Antenna Element 18, 6GHz, Gain, Frequency Band	11111111	FF	255	
72	Antenna Element 18, 5GHz, Gain and SB, 35GHz, Gain	11111111	FF	255	
73	Antenna Element 19, Features	11111111	FF	255	
74	Antenna Element 19, 6GHz, Gain, Frequency Band	11111111	FF	255	
75	Antenna Element 19, 5GHz, Gain and SB, 35GHz, Gain	11111111	FF	255	
76	Antenna Element 20, Features	11111111	FF	255	
77	Antenna Element 20, 6GHz, Gain, Frequency Band	11111111	FF	255	
78	Antenna Element 20, 5GHz, Gain and SB, 35GHz, Gain	11111111	FF	255	
79	Antenna Element 21, Features	00000000	00	1	VID
80	Antenna Serial Number - Digit 1				Factory Programmed Antenna Serial Number
81	Antenna Serial Number - Digit 2				
82	Antenna Serial Number - Digit 3				
83	Antenna Serial Number - Digit 4				
84	Antenna Serial Number - Digit 5				
85	Antenna Serial Number - Digit 6				
86	Antenna Serial Number - Digit 7				
87	Antenna Serial Number - Digit 8				
88	Antenna Serial Number - Digit 9				
89	Antenna Serial Number - Digit 10				
90	Antenna Serial Number - Digit 11				
91	Reserved	11111111	FF	255	
92	Reserved	11111111	FF	255	
93	Reserved	11111111	FF	255	
94	Reserved	11111111	FF	255	
95	Reserved	11111111	FF	255	
96	Reserved	11111111	FF	255	
97	Reserved	11111111	FF	255	
98	Reserved	11111111	FF	255	
99	Reserved	11111111	FF	255	
100	Reserved	11111111	FF	255	
101	Reserved	11111111	FF	255	
102	Smart Antenna - Primary, Max Gain Overall - 6GHz	00000000	04	4	4 dBi
103	Smart Antenna - Beam Width, Elevation - 6GHz	11111111	FF	255	
104	Smart Antenna - Beam Width, Azimuth - 6GHz	11111111	FF	255	
105	Smart Antenna - Side-lobe Gain for Elevation Angles > 30° (Outdoor 6GHz, UNI 5 & 7)	11111111	FF	255	
106	Smart Antenna - GNSS Features	11111111	FF	255	
107	GNSS, Constellations	11111111	FF	255	
108	GNSS, Gain	11111111	FF	255	
109	GNSS, Cable Length	11111111	FF	255	
110	EEPROM Version / CRC, MSB	00110000	3D	48	CRC Supported, October 2025 - VID Addition
111	CRC, calculated over BYTES 0 - 109				
112	Unused Field		FF		
113	Unused Field		FF		
114	Unused Field		FF		
115	Unused Field		FF		
116	Unused Field		FF		
117	Unused Field		FF		
118	Unused Field		FF		
119	Unused Field		FF		
120	Unused Field		FF		
121	Unused Field		FF		
122	Unused Field		FF		
123	Unused Field		FF		
124	Unused Field		FF		
125	Unused Field		FF		
126	Unused Field		FF		
127	Unused Field		FF		
NB = Narrowbeam WB = Widebeam SB = Single Band					

EEPROM Byte Table for Text Document															
06	03	07	08	05	05	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	01
0	0	0	0	0	0	0	0	0	0	0	FF	FF	FF	FF	FF
FF	FF	FF	FF	FF	FF	04	FF	FF	FF	FF	FF	FF	FF	30	0
FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF

ARTICULATE MOUNTING

MAST MOUNT

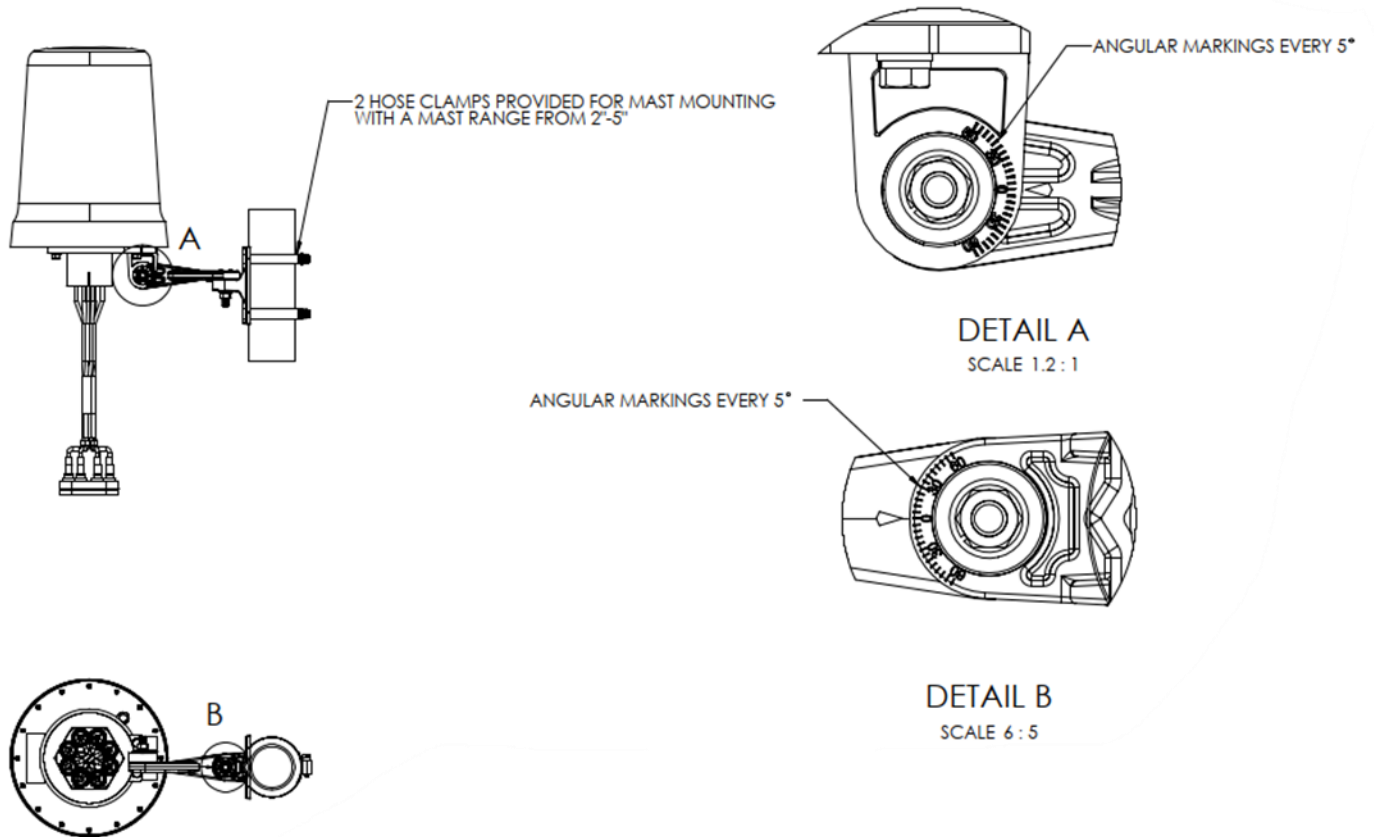
ITEM NO	DESCRIPTION	QTY
1	WASH, FLAT,M6	4
2	WASHER, SLOCK, M6	4
3	BOLT,HEX,M6 X 16	4
4	NUT,HEX,5/16-18	2
5	WASHER, SPLIT-LOCK, 5/16"	2
6	WASH,FLAT,5-16in	2
7	CLAMP,50mm-135mm	2
8	ALU DIE CAST, FLANGE	1
9	ALU DIE CAST ARM	1
10	BOLT, 5/16" X 1-5/8"	2
11	WASHER, EXT OL SERRATED, M8	2
12	MOUNT BRACKET	1



ARTICULATE MOUNTING

MAST MOUNT

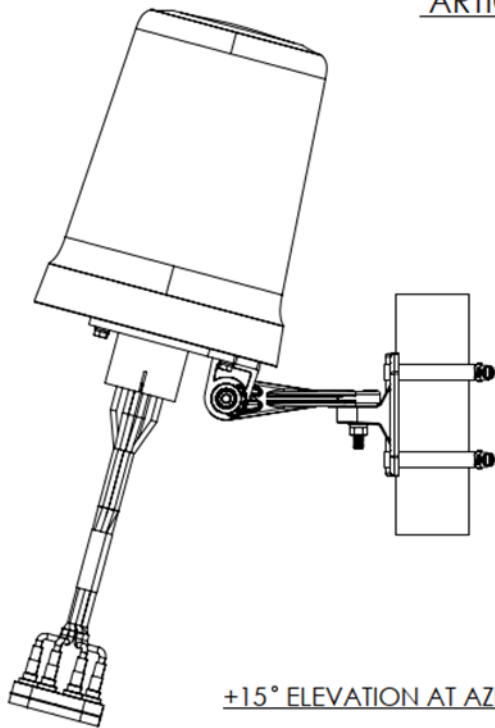
ARTICULATE BRACKET MOUNT



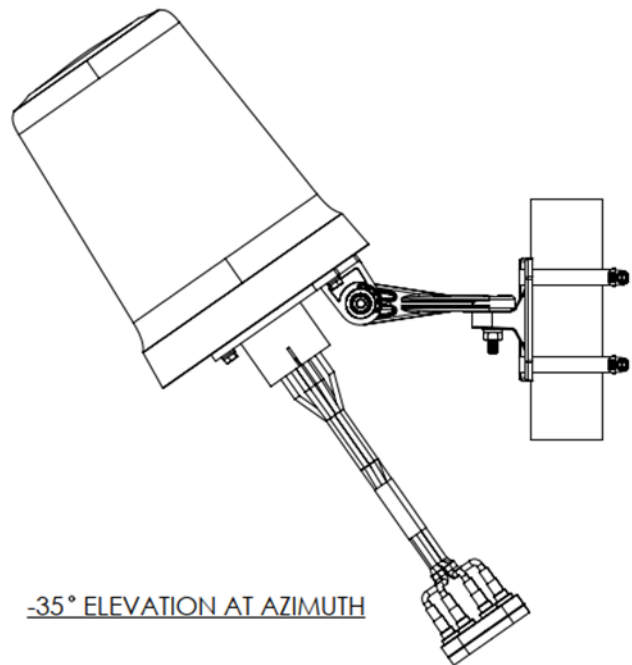
ARTICULATE MOUNTING

MAST MOUNT

ARTICULATE BRACKET MOUNT



+15° ELEVATION AT AZIMUTH

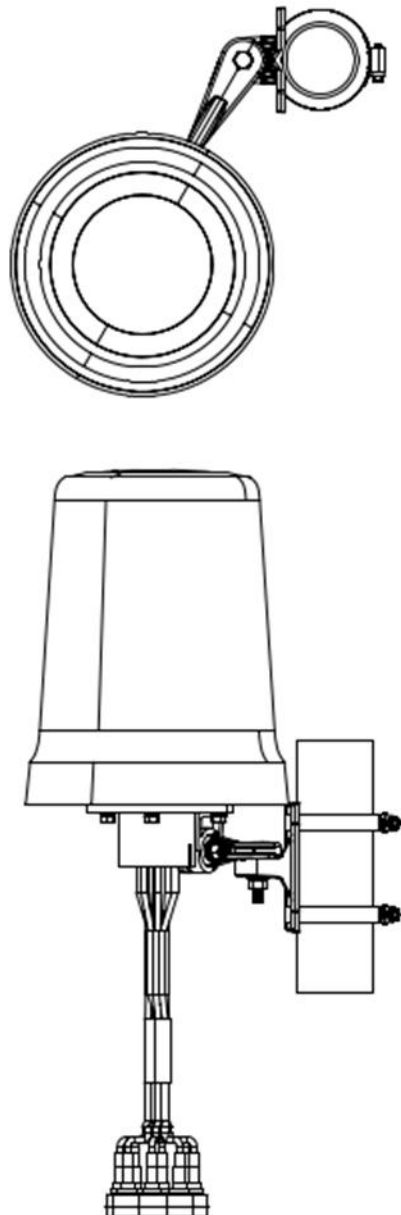


-35° ELEVATION AT AZIMUTH

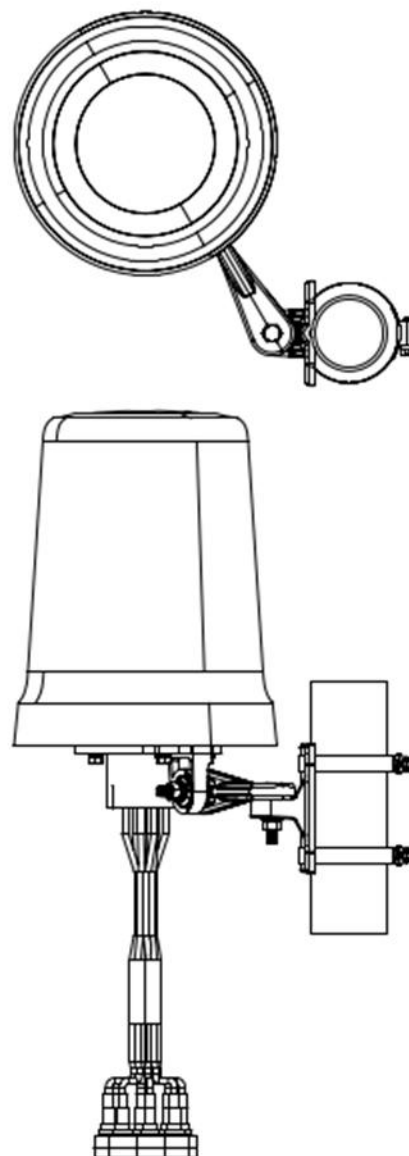
ARTICULATE MOUNTING

MAST MOUNT

-60° AZIMUTH AT 0° ELEVATION

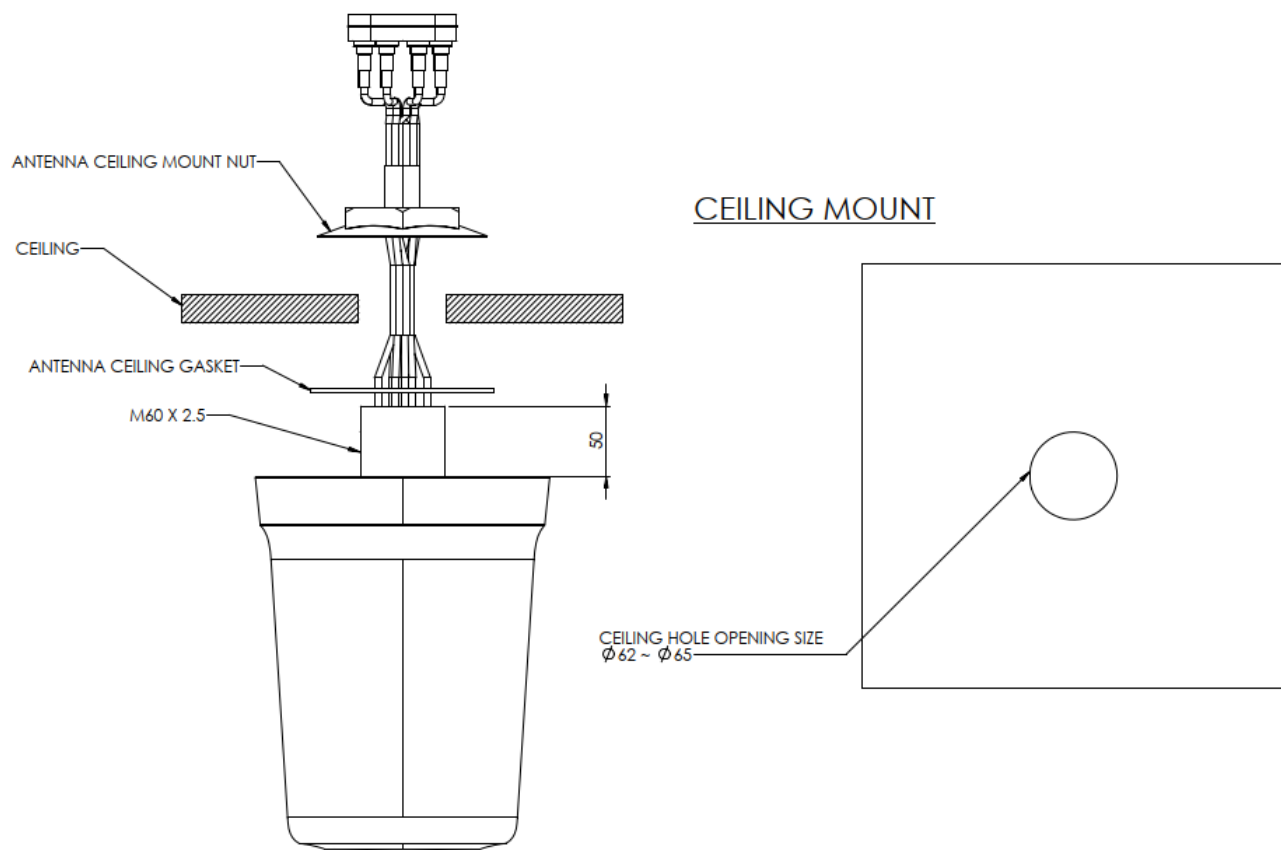


+60° AZIMUTH AT 0° ELEVATION

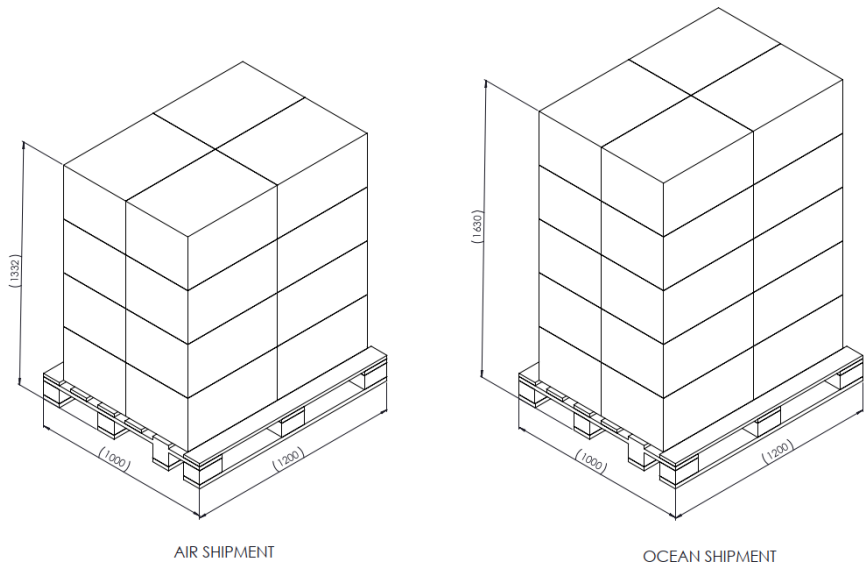


CEILING MOUNT

ITEM NO	DESCRIPTION	QTY
1	ANTENNA CEILING GASKET	1
2	ANTENNA CEILING MOUNT NUT	1



PACKING INFORMATION



PACKAGED DIMENSIONS	AIR PALLET	OCEAN PALLET
NUMBER OF ANTENNAS	16	20
HEIGHT – cm (in)	133 (52.4)	163 (64.2)
LENGTH – cm (in)	120 (47.3)	120 (47.3)
WIDTH – cm (in)	100 (39.4)	100 (39.4)
EST.SHIPPING WEIGHT – kg (lbs)	95 (209.4)	115 (253.5)

TE TECHNICAL SUPPORT CENTER

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