

MARITIME ANTENNA

Maritime 40G

Overview

- **Designed for Maritime Applications**
IP68 rated, durable and UV-stable housing an omnidirectional antenna for the best signal reception.
- **Designed for 5G**
Optimal gain, 4x4 MIMO antenna configuration for the best performance for maritime installations.
- **Ultra-wide bandwidth**
Wide frequency range (410-6000MHz) for supporting LTE and 5G connectivity.
- **Easy installation**
Supports standard maritime 1" 14 TPI thread mount and also has an L-shape mount for non-standard installations.
- **Wi-Fi bands**
The antenna is designed for cellular bands but also covers both 2.4 & 5GHz Wi-Fi frequencies. To use the antennas for Wi-Fi, you will require an SMA to RP-SMA adapter.

Applications

- **Maritime**

7
dBi

IP
68

4x4
MIMO

↑↓
LTE

GPS

Built
for
5G

Specification

Cellular

Antenna elements	4 elements
Cellular frequency bands & Gain	3.2dBi: 410-470MHz 3.8dBi: 617-960MHz 5.3dBi: 1710-2700MHz 6.5dBi: 3400-4200MHz 6.7dBi: 4900-6000MHz
VSWR	<3.5: 410-470MHz <3.0: 617-960MHz <2.5: 1710-6000MHz
Max feed power handling	10W
Input impedance	50 Ω
Polarisation	Linear

GPS

Frequency range	1561-1602 MHz
Peak gain	0.5dBi@1575MHz 1.6dBi@1602MHz
VSWR	< 2.5
Output return loss	10dB max
LNA gain	28 ±3dB
Noise figure	1.5dB max at 3.3V
Operating Voltage	3.3V
Power consumption	8.5mA ±2.5m at 3.3V

Cable (LTE/5G)

Type	CFD-200
Length	6'7" / 2m
Loss	0.33 dB/m @ 900 MHz 0.49 dB/m @ 2000 MHz 0.55 dB/m @ 2500 MHz 0.87 dB/m @ 5800 MHz
Diameter	13/64" / 5.0mm
Jacket	Half matt PVC, UV resistant
Termination	SMA male

Cable (GPS)

Type	RG-174
Length	6'7" / 2m
Loss	3.4 dB/m @ 1000 MHz 4.9 dB/m @ 1800 MHz
Diameter	0.1" / 2.7mm
Jacket	Half matt PVC, UV resistant
Termination	SMA male

Mounting

Supported types	Standard Maritime 1" 14 TPI thread Pole and wall mounting Pole diameter: 1-2" (25-50mm)
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Mechanical

Product dimensions	(Diameter) (Height)	3.78" / 96mm 34.39" / 873.5mm
Packaged dimensions		41.54" x 6.0" x 6.1" 1055 x 153 x 155mm
Housing material		UV stable PC

Package contents

Antenna	Maritime Antenna 40G
Accessories	Maritime mount set L-shape mount set Deck mount (ACW-652)

Environmental & Compliance

IP rating	IP68
Operating temperature	-40° - 176°F / -40° - 80°C
Storage temperature	-40° - 176°F / -40° - 80°C
Compliance	ROHS, REACH, WEEE
Wind survivability	100mph / 160km/h
Salt Spray	MIL-STD 810F/ASTM B117

Contact Us

orderdesk@dcitech.com

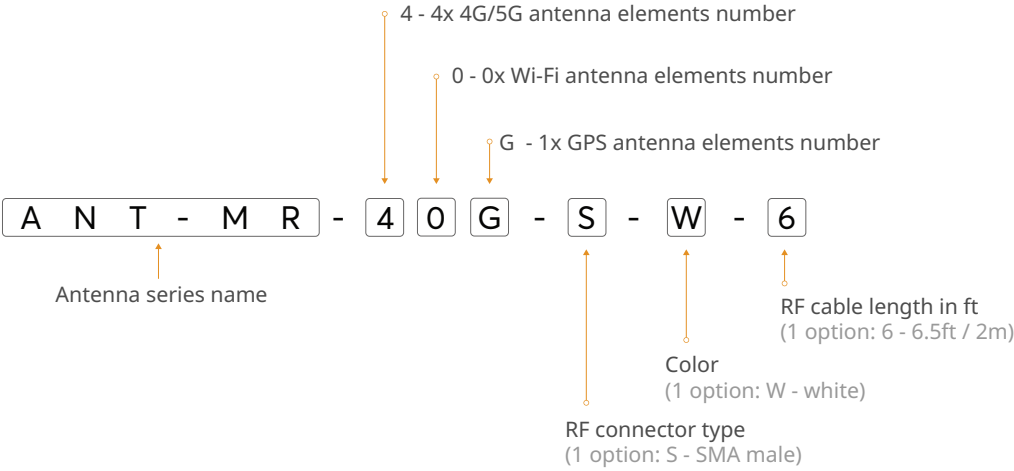
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Maritime 40G

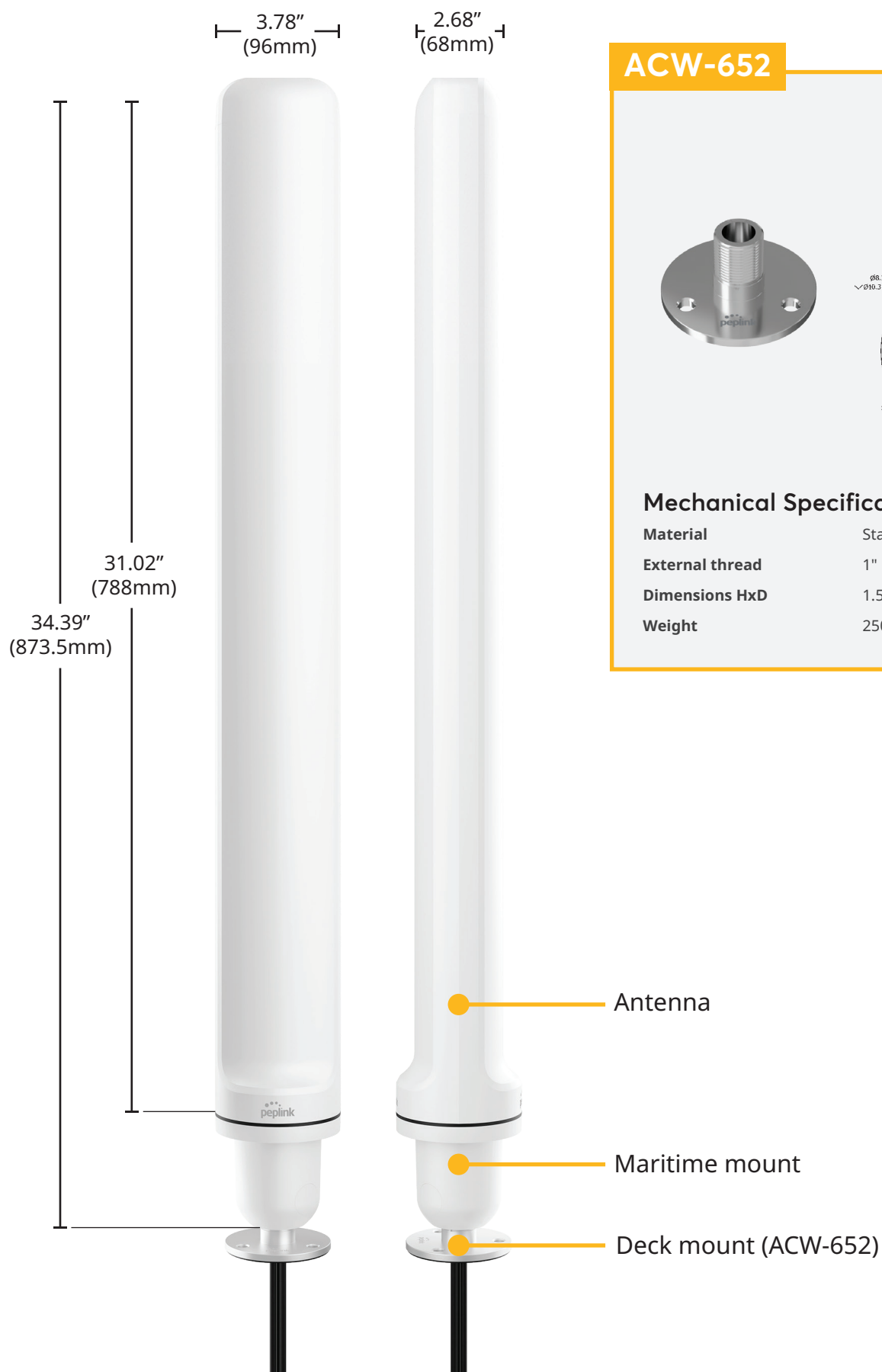
Specifications subject to change without notice.

Ordering Information

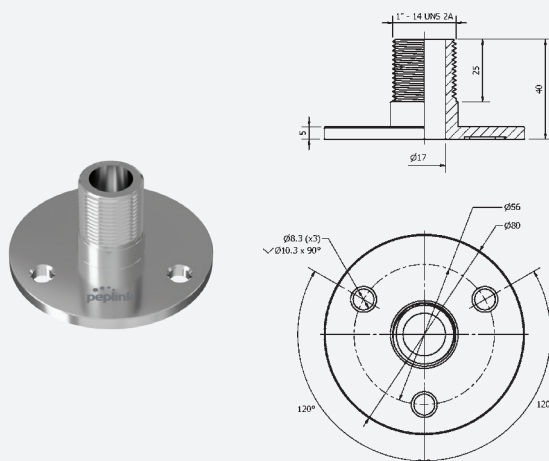


Product Code	Description
ANT-MR-40G-S-W-6	4x LTE/5G, 1x GPS 410-6000MHz, IP68, SMA male, White, 6.5ft / 2m

Technical Drawing



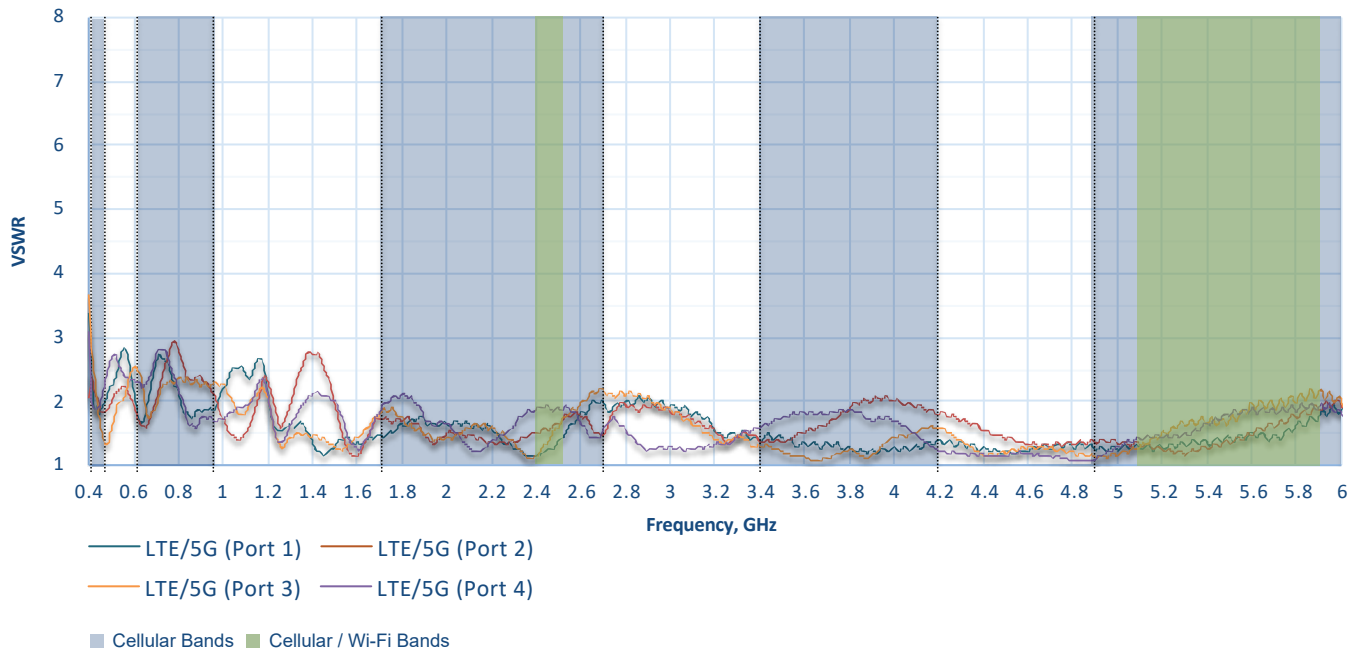
ACW-652



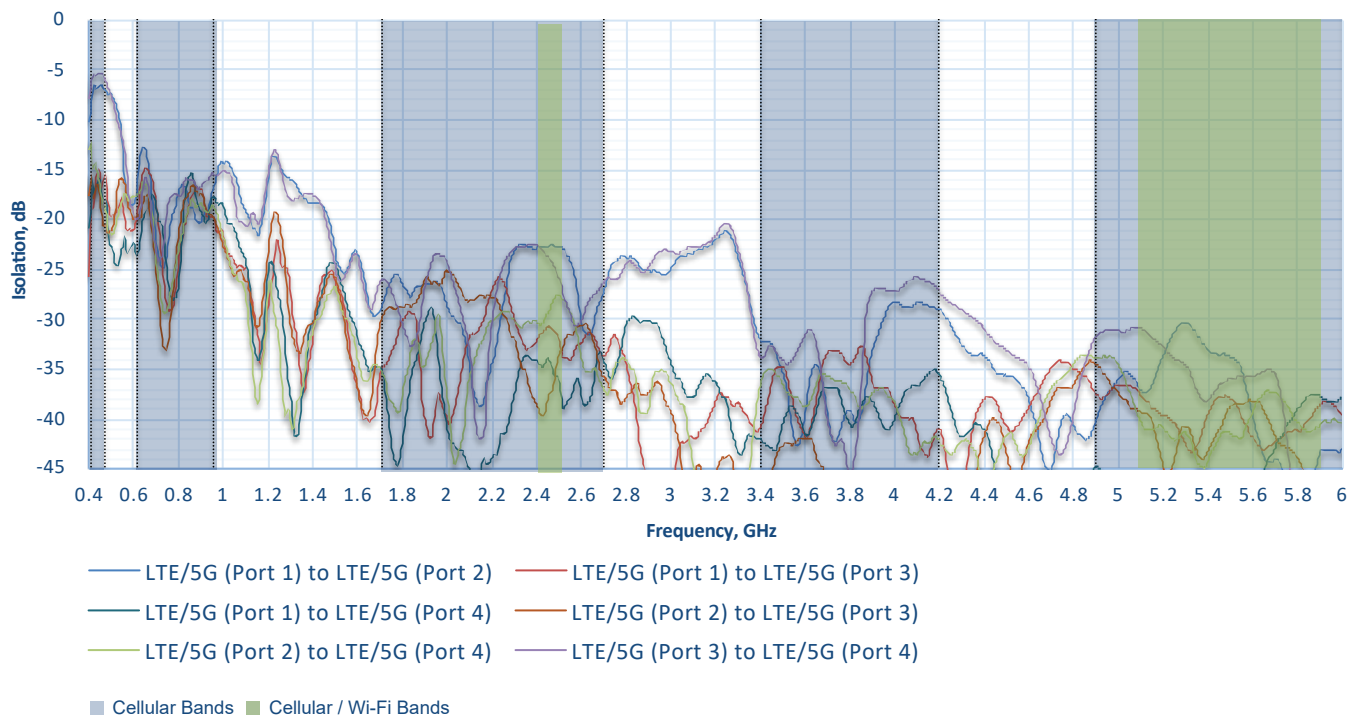
Mechanical Specification

Material	Stainless Steel SS316
External thread	1" 14 TPI
Dimensions HxD	1.57" x 3.15" (40 x 80mm)
Weight	250g / 0.55 pounds

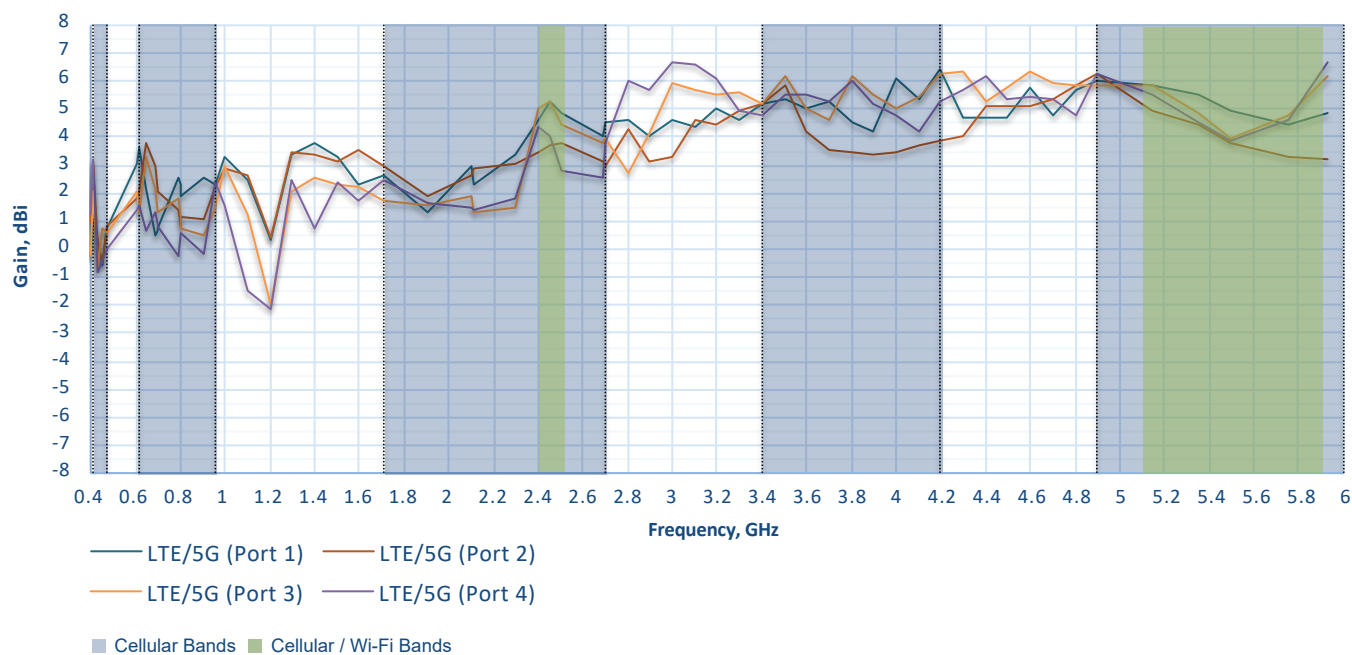
Cellular Antenna VSWR



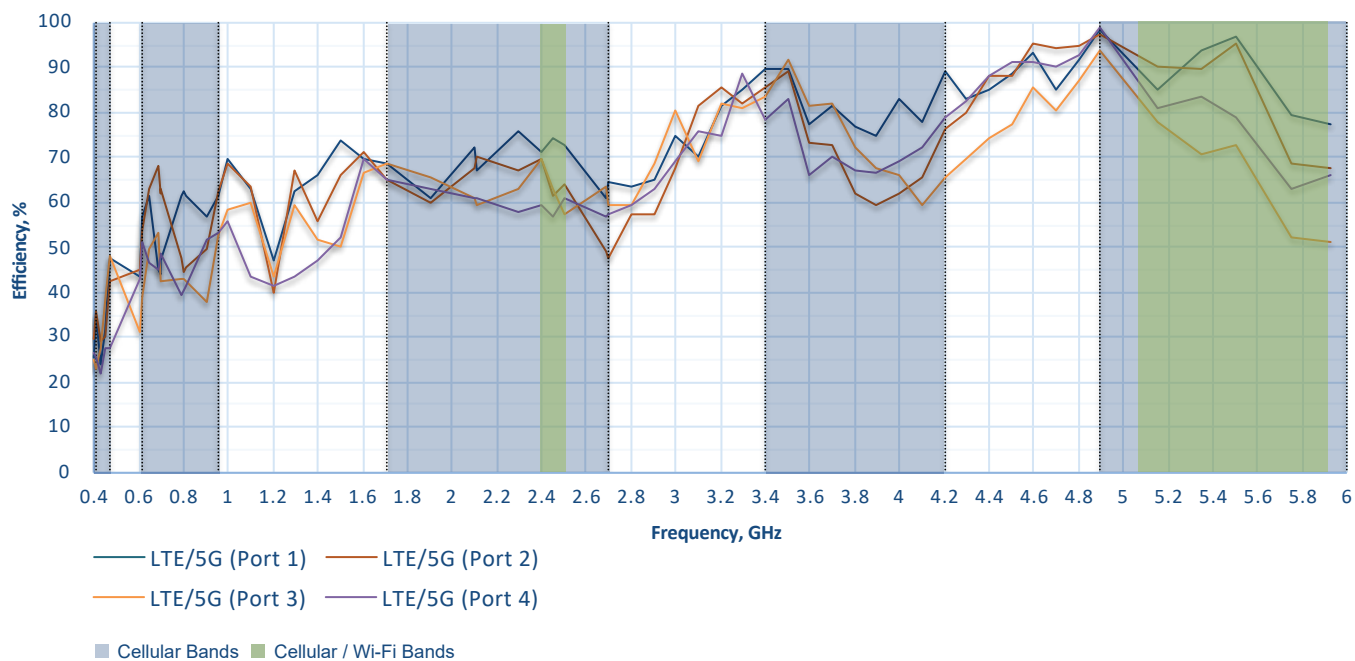
Cellular Antenna Element Isolation



Cellular Antenna Gain

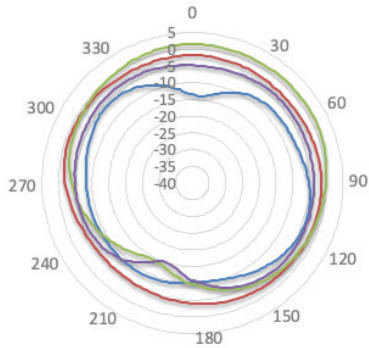


Cellular Antenna Efficiency



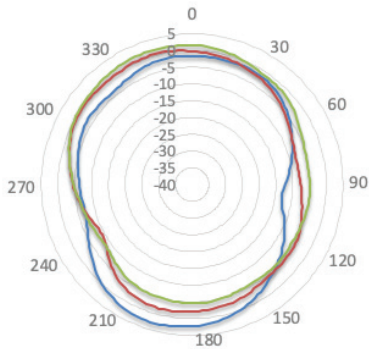
Radiation Patterns (Azimuth)

430-960 MHz



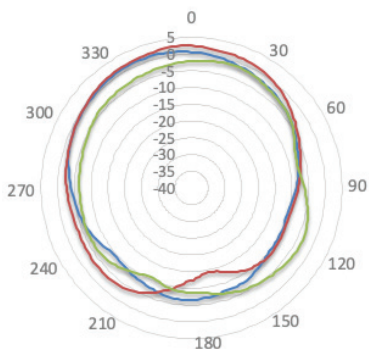
— 430MHz — 617MHz — 800MHz — 960MHz

1710-2100 MHz



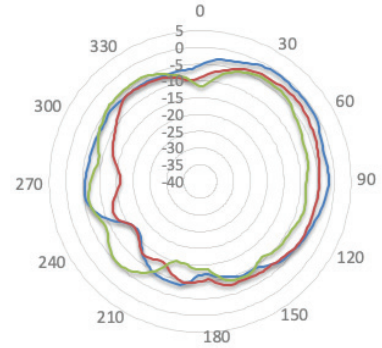
— 1710MHz — 1900MHz — 2100MHz

2300-2700 MHz



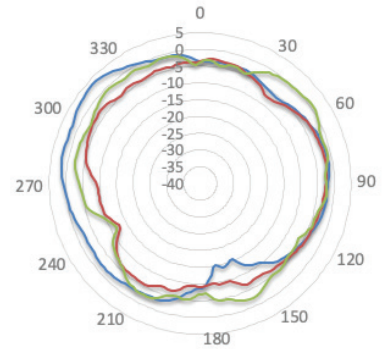
— 2300MHz — 2500MHz — 2700MHz

3400-3800 MHz



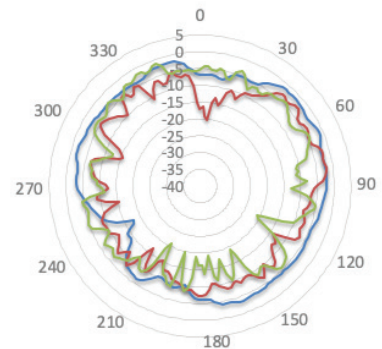
— 3400MHz — 3600MHz — 3800MHz

4200-5150 MHz



— 4200MHz — 4900MHz — 5150MHz

5350-5930 MHz

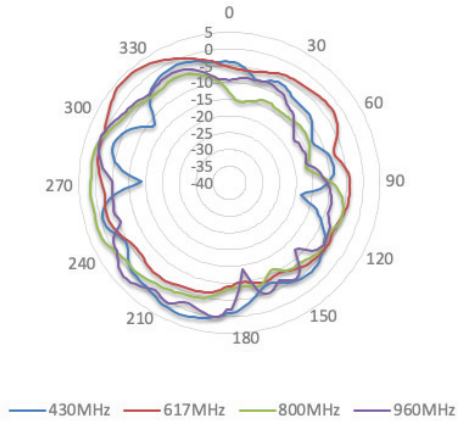


— 5350MHz — 5750MHz — 5930MHz

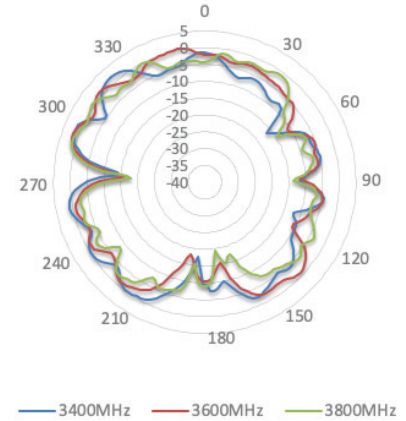
Maritime 40G

Radiation Patterns (Elevation 1)

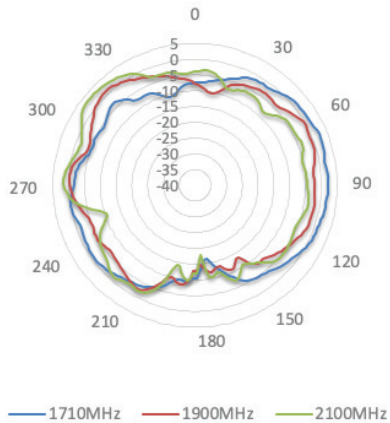
430-960 MHz



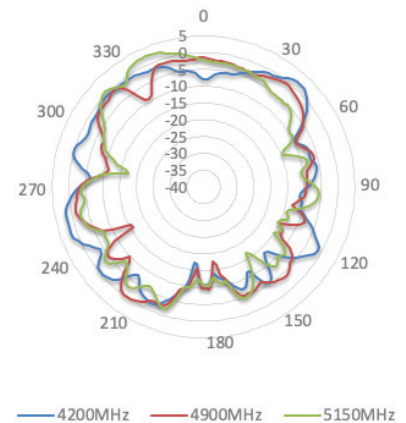
3400-3800 MHz



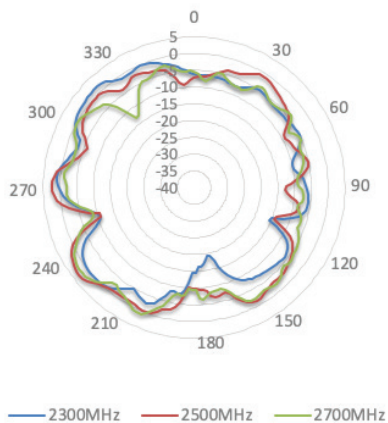
1710-2100 MHz



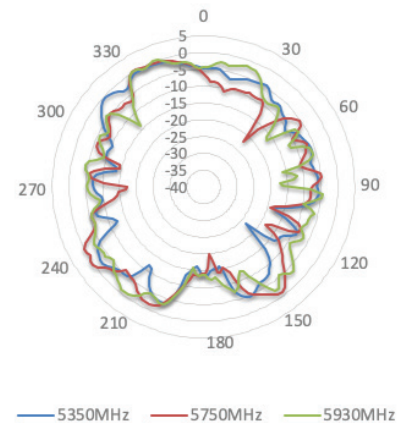
4200-5150 MHz



2300-2700 MHz



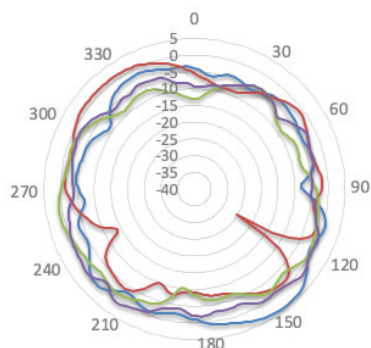
5350-5930 MHz



Maritime 40G

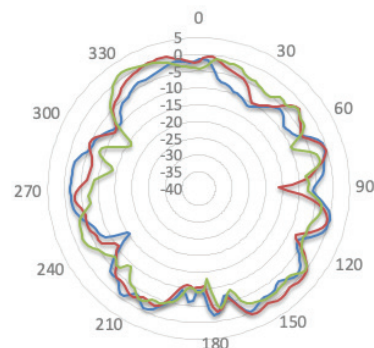
Radiation Patterns (Elevation 2)

430-960 MHz



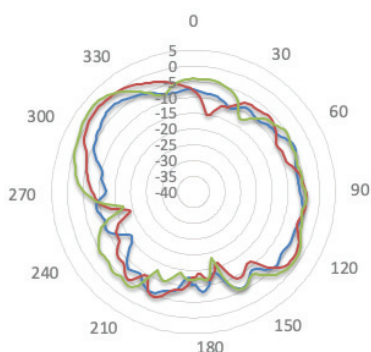
— 430MHz — 617MHz — 800MHz — 960MHz

3400-3800 MHz



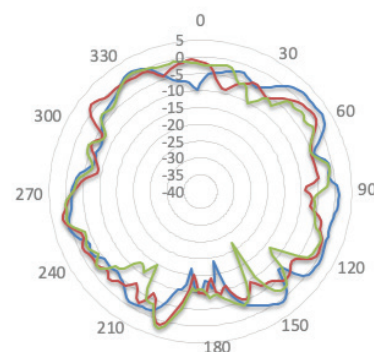
— 3400MHz — 3600MHz — 3800MHz

1710-2100 MHz



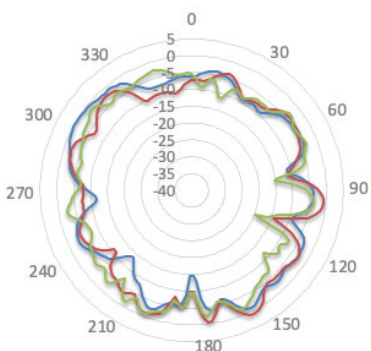
— 1710MHz — 1900MHz — 2100MHz

4200-5150 MHz



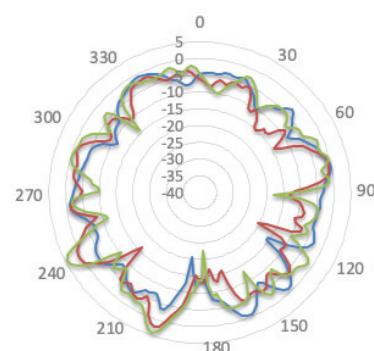
— 4200MHz — 4900MHz — 5150MHz

2300-2700 MHz



— 2300MHz — 2500MHz — 2700MHz

5350-5930 MHz



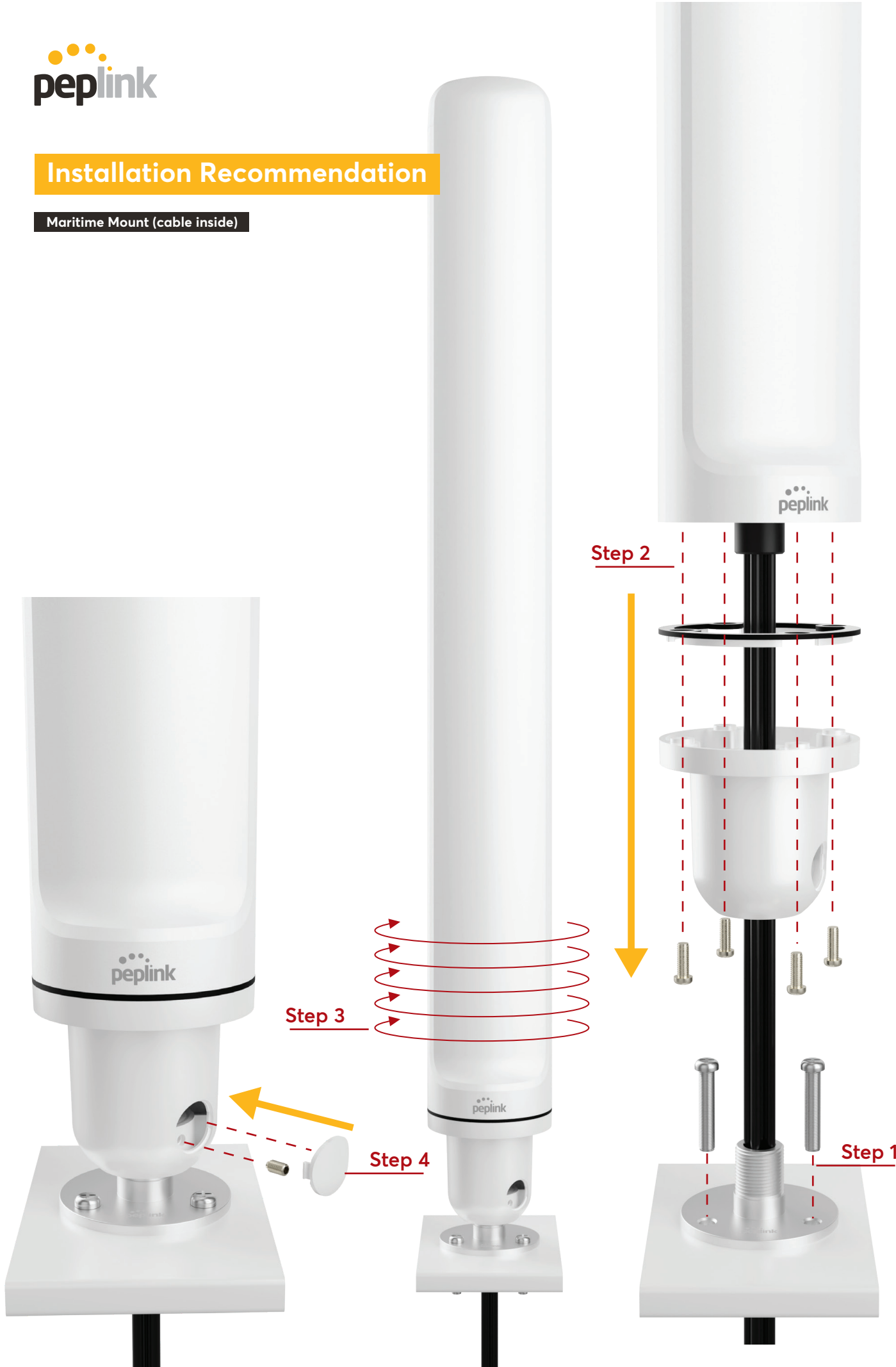
— 5350MHz — 5750MHz — 5930MHz

Maritime 40G

Installation Recommendation

Maritime Mount (cable inside)

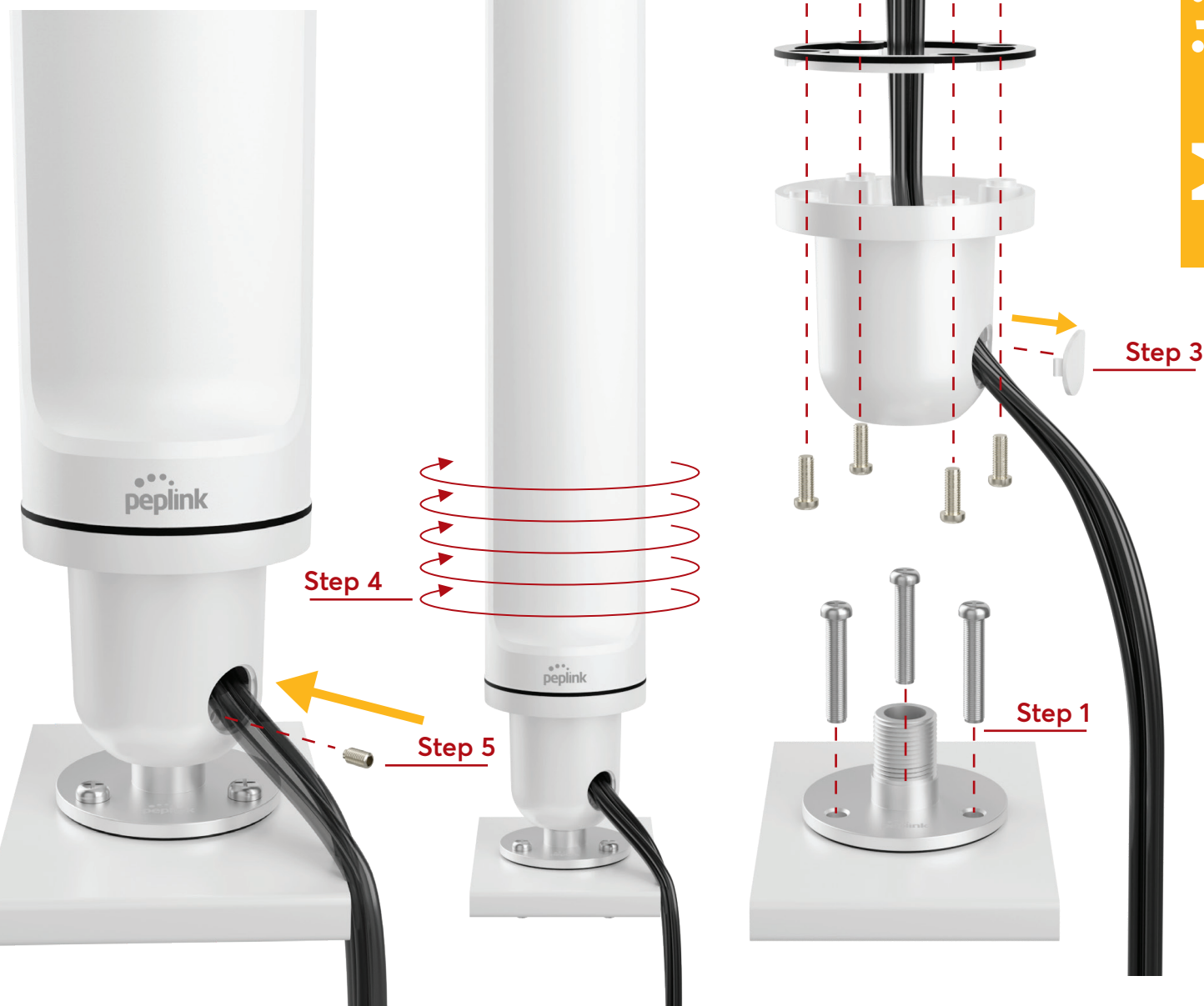
Maritime 40G



Installation Recommendation

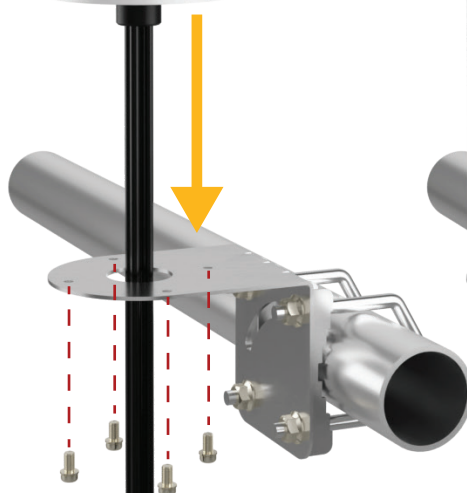
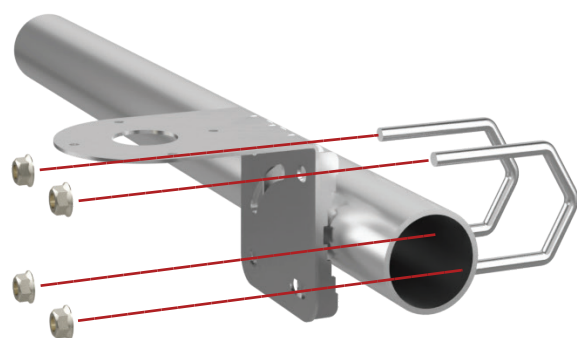
Maritime Mount (cable outside)

Maritime 40G



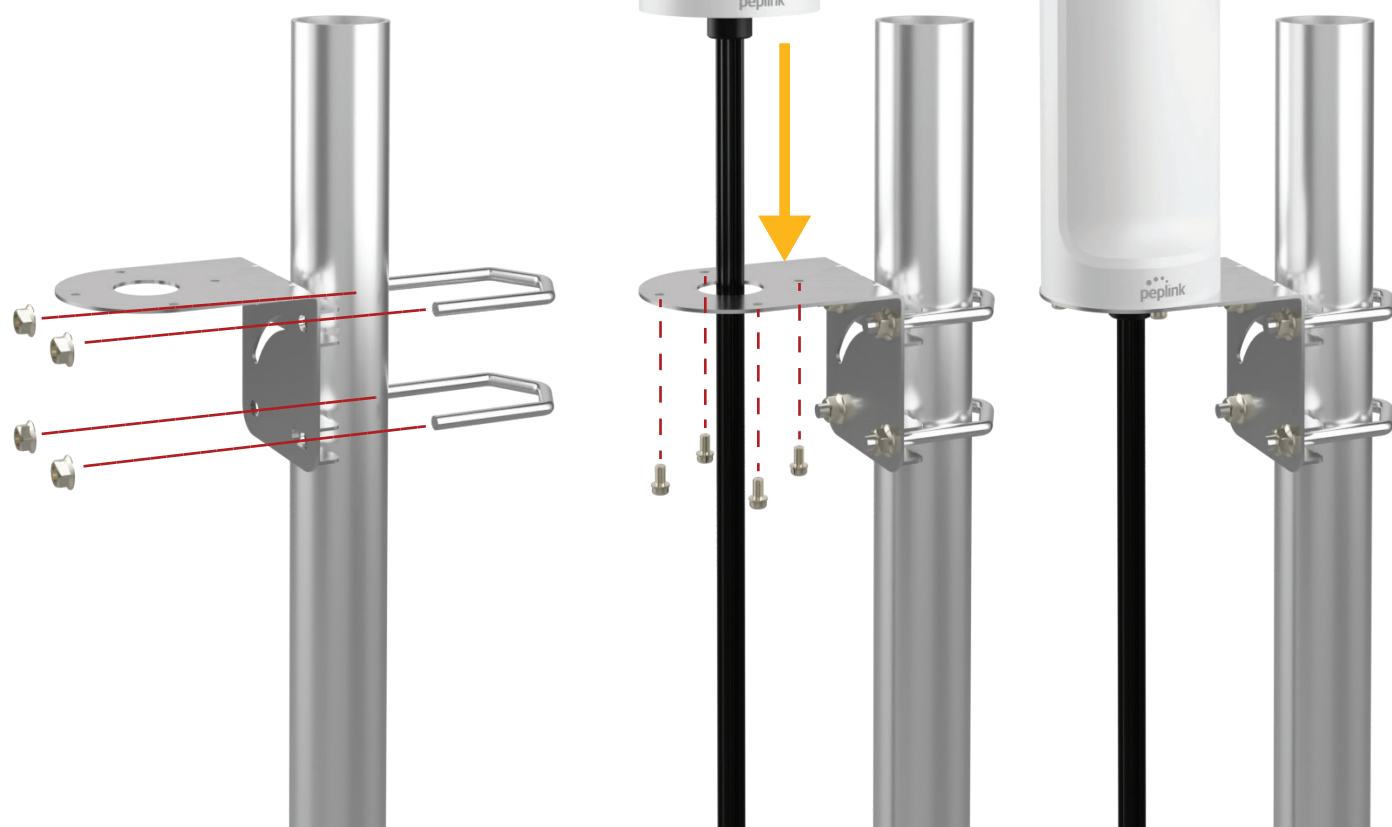
Installation Recommendation

L-shape Mount (horizontal pole)



Installation Recommendation

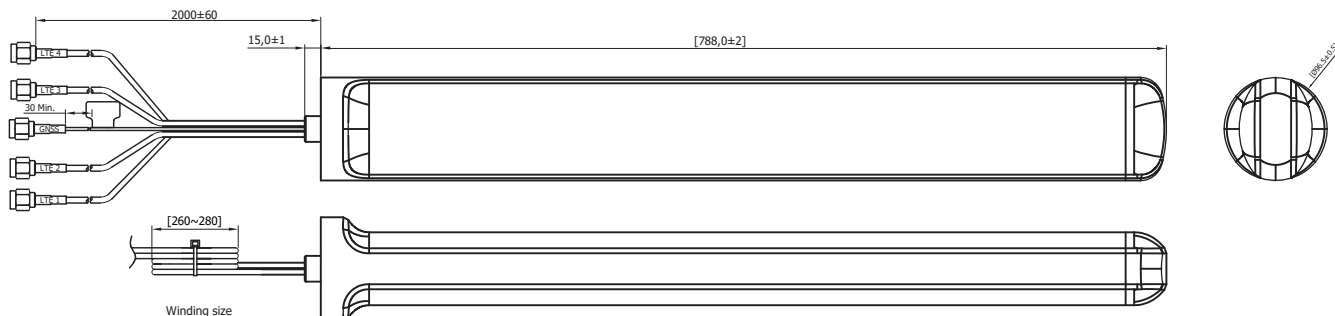
L-shape Mount (vertical pole)



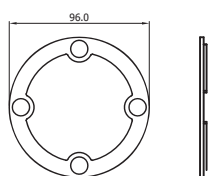
Maritime 40G

Packing List Information

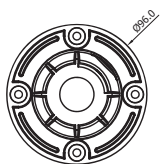
Antenna



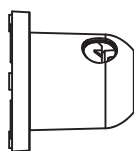
Maritime Mount Set



Rubber gasket



Maritime mount



Maritime mount cable cover

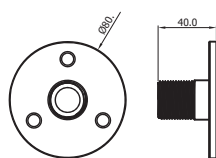


Bolt
(4 pcs, M5*16L)

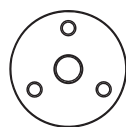


Lock bolt
(1 pcs M5*9.2L)

Deck Mount Set



Deck Mount (ACW-652)



Rubber Gasket

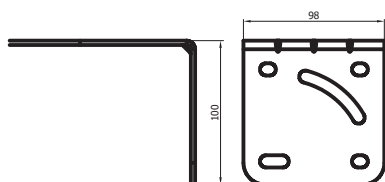


Bolt
(3 pcs, M8*45L)

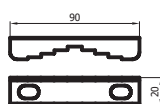


Nut
(3 pcs, M8)

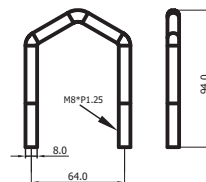
L-Mount Mount Set



L-Mount



Bracket
(2 pcs)



V-bolt
(2 pcs)



V-bolt nut
(4 pcs, M8)