



CISCO BLUEFIN 3

8-Port Wi-Fi 7 Directional Panel Antenna

Bluefin 3 is an 8-port and dual-polarized directional panel antenna with triband 2.4/ 5/ 6 GHz operating frequency ranges intended to serve in high traffic density Wi-Fi 7 (802.11be) applications. It comes with a DART cable that bundles RF and digital cables together which eases the installation processes. With IP66 rating, it works in both indoor and outdoor environments. Mounting brackets were supplied for wall or mast mounting configurations.

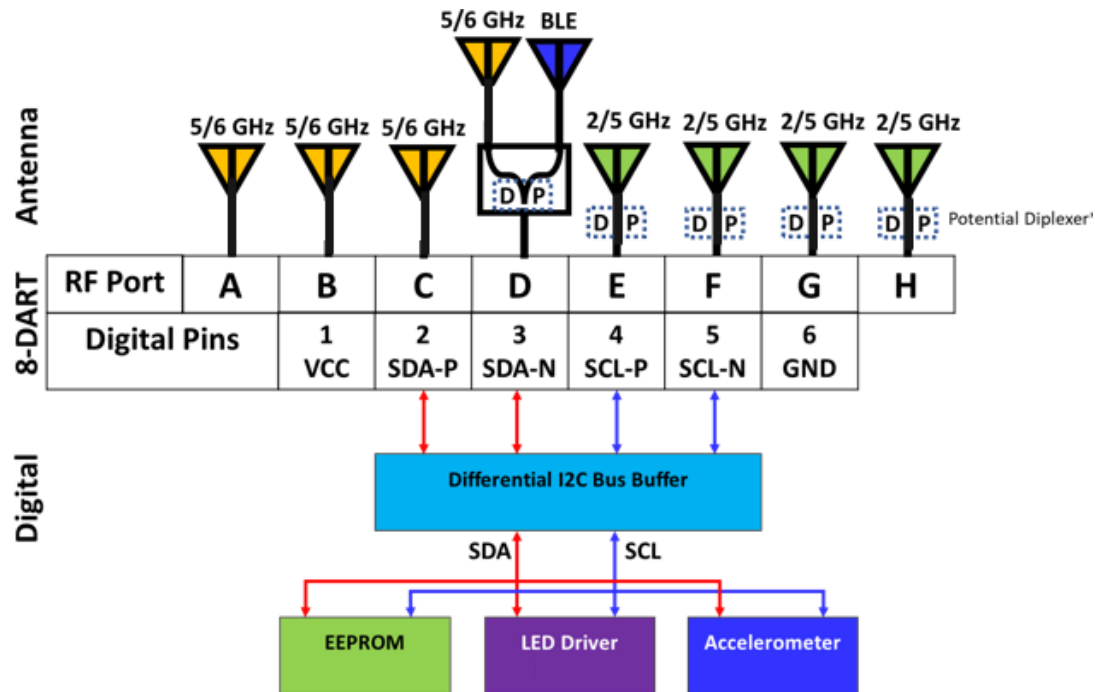
ELECTRICAL

TE P/N	L001011-01				
Cisco P/N	07-100958-01				
Cisco PID	CW-ANT-T-D2-D8				
Port	Port A, B, C	Port D		Port E, F, G, H	
Frequency, MHz	5100 - 7125	2400 - 2500	5100 - 7125	2400 - 2500	5100 - 7125
VSWR	< 2:1				
Isolation (Intra-array), dB *	> 20				
Isolation (Inter-array), dB *	> 20 (2400 - 2500 MHz), > 35 (5100 - 7125 MHz)				
Gain (Peak), dBi	5.5	6.3	5.5	6.6	5.7
Gain (Ave), dBi	4.9	5.9	4.8	5.9	5.1
Total Efficiency (Ave), %	47	65	45	65	48
Radiator's Efficiency (Ave), %	82	91	78	89	80
Polarization	Horizontal (Port A, C, E, G), Vertical (Port B, D, F, H)				
Nominal Impedance, Ω	50				
Power, W	10				
E-Plane 3-dB BW (Ave), °	72	72	69	78	71
H-Plane 3-dB BW (Ave), °	73	87	76	80	71
Front-to-back ratio (Min)	21	26	24	27	22
Gain at 90°, dBi **	-1.3	-1.2	-0.7	0.2	-1
Gain at 30° OTH, dBi	4.5 (5150 - 5250 MHz) 4.2 (5925 - 6425 MHz) 3.3 (6525 - 6875 MHz)	4.1 (5150 - 5250 MHz) 3.9 (5925 - 6425 MHz) 3.6 (6525 - 6875 MHz)		4.5 (5150 - 5250 MHz) 4.2 (5925 - 6425 MHz) 4.3 (6525 - 6875 MHz)	
SIA	Yes				

* Port A, B, C and D form the first array while Port E, F, G and H form the second array.

** Gain for the plane at 90° from boresight direction.

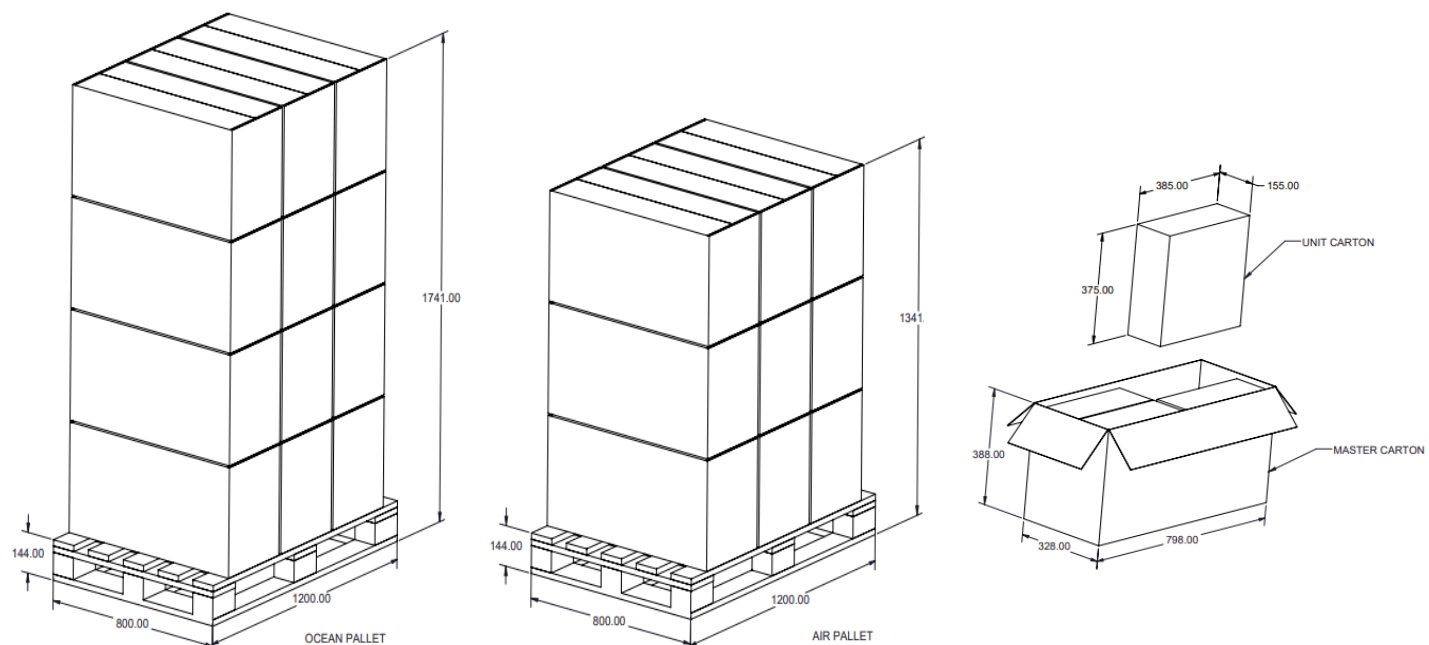
ANTENNA AND DIGITAL COMPONENTS LAYOUT



MECHANICAL	
Antenna Weight	1097.4g (2.42lbs)
Mounting Kit Weight	713.9g (1.57lbs)
Radome	TRINSEO EMERGE PC 8230ECO, 60% PCT
Color	MERAKI WHITE
Exposed Cable Length (Lc)	749 ± 25mm (29.5 ± 1")
RF Connector	8X RA RF DART & 6X DIGITAL MULTIPOINT, PIGTAIL ASSEMBLY WITH DIGITAL HEADER
Mounting	WALL OR MAST MOUNT

ENVIRONMENTAL	
Operating Temperature	-40°C + 70°C
Storage Temperature	-60°C + 90°C
Ingress Protection	IP66

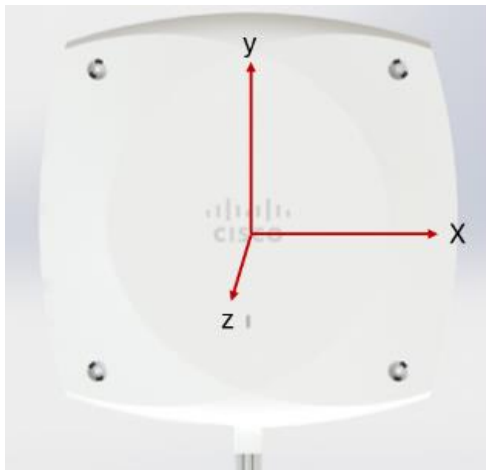
PACKING INFORMATION



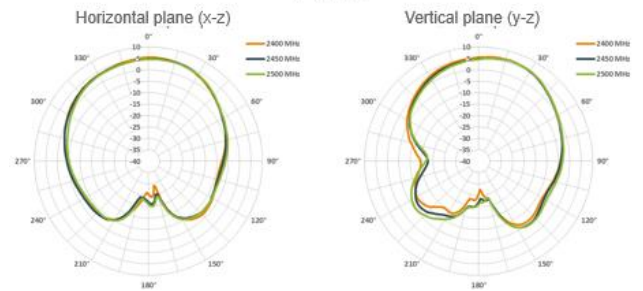
PACKAGED DIMENSIONS	MASTER CARTON	AIR PALLET	OCEAN PALLET
NUMBER OF ANTENNAS	4	36	48
HEIGHT-cm(in)	38.8 (15.3)	134.1 (52.8)	174.1 (68.5)
LENGTH-cm(in)	79.8 (31.4)	120 (47.3)	120 (47.3)
WIDTH-cm(in)	32.8 (12.9)	80 (31.5)	80 (31.5)
EST.SHIPPING WEIGHT-kg(lbs)	8.0 (17.6)	72 (159)	96 (212)

Radiation Pattern

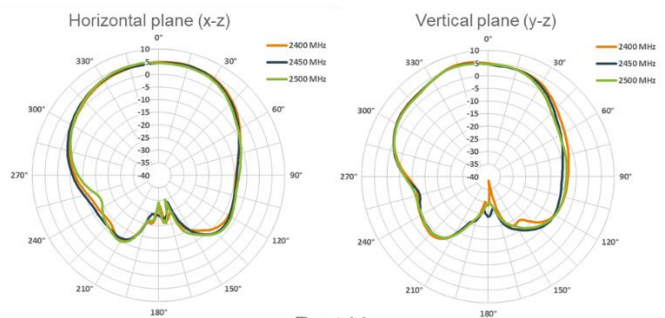
Radiation Patterns at 2400 - 2500 MHz



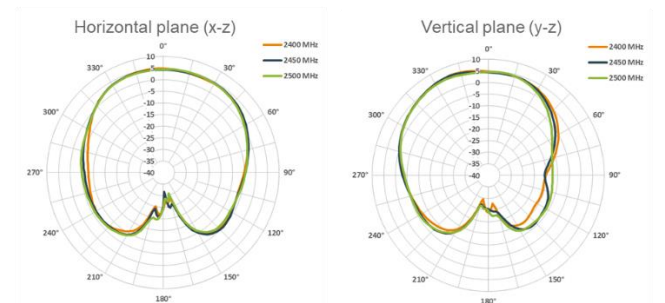
Port D



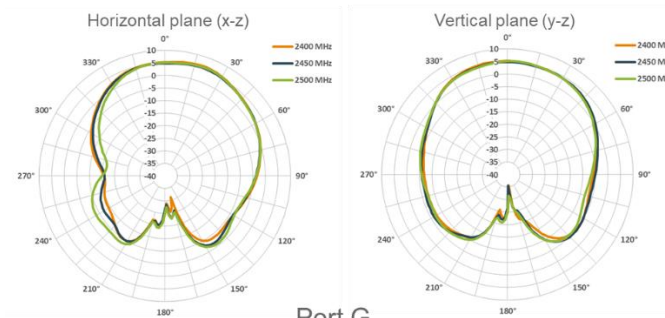
Port F



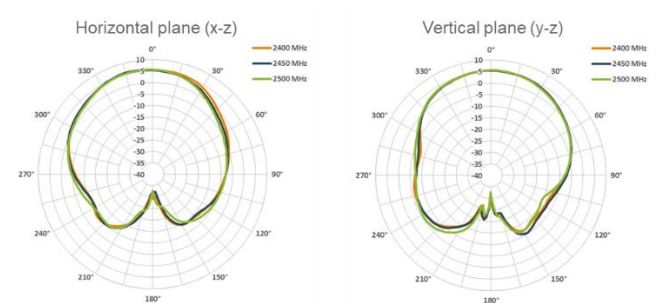
Port H



Port E

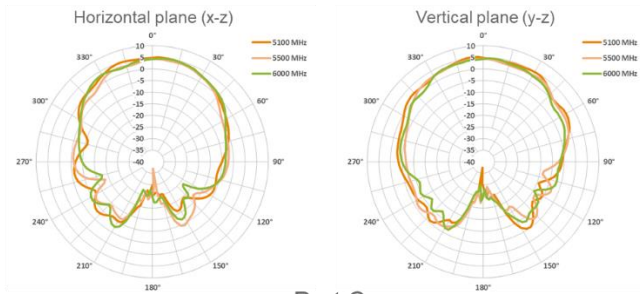


Port G

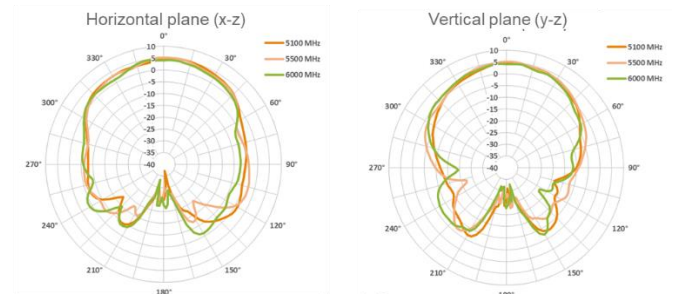


Radiation Patterns at 5100 - 6000 MHz

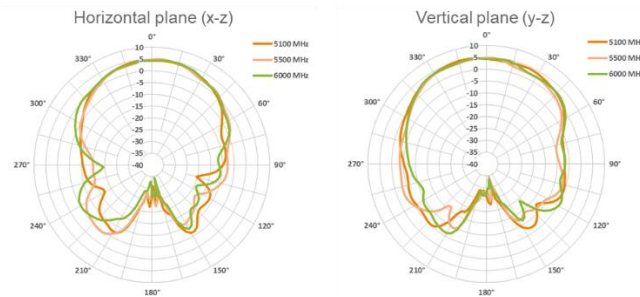
Port A



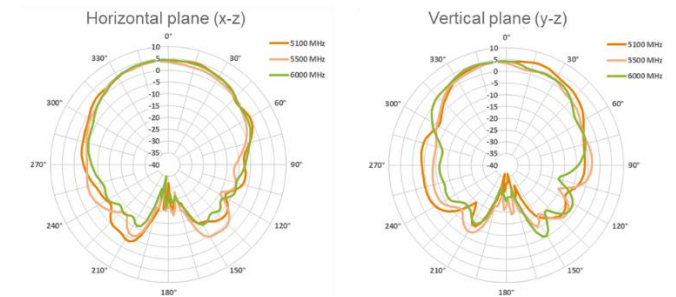
Port B



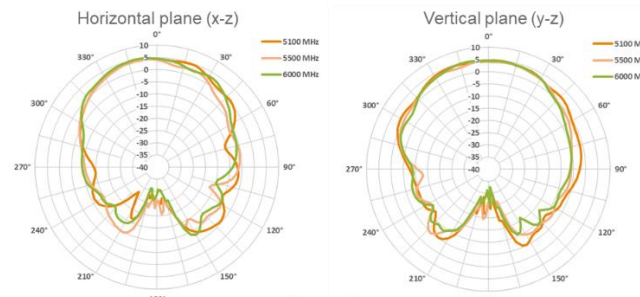
Port C



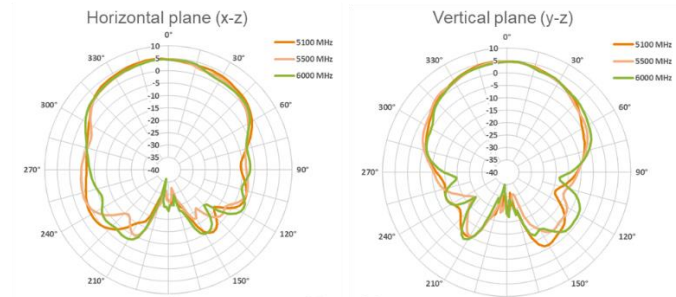
Port D



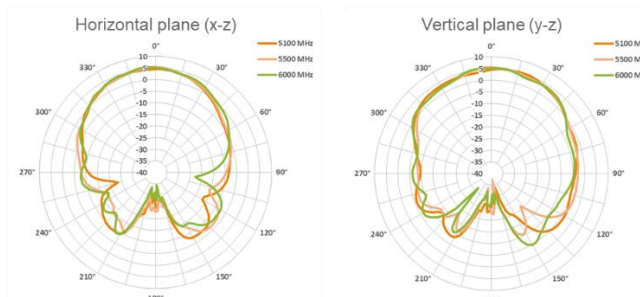
Port E



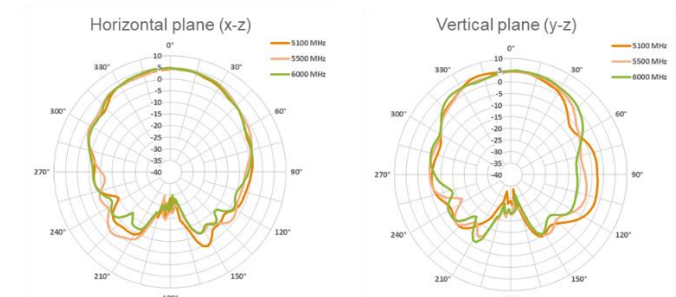
Port F



Port G

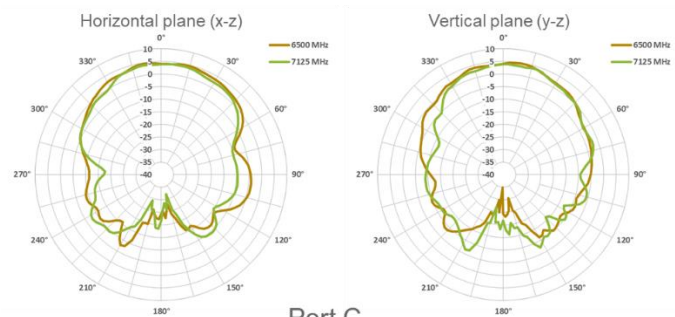


Port H

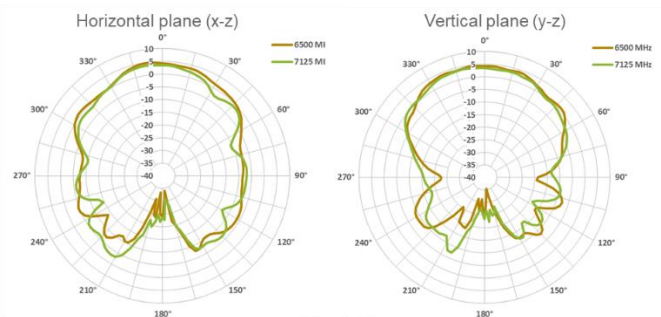


Radiation Patterns at 6000 – 7125 MHz

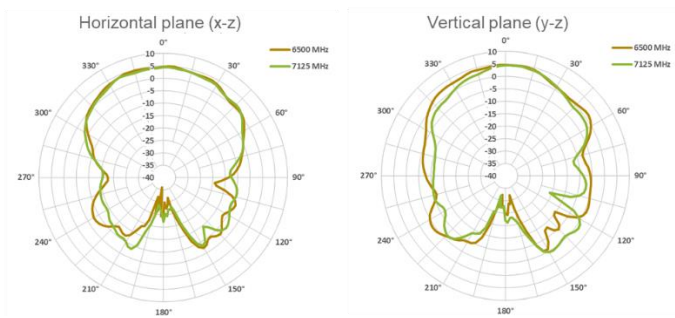
Port A



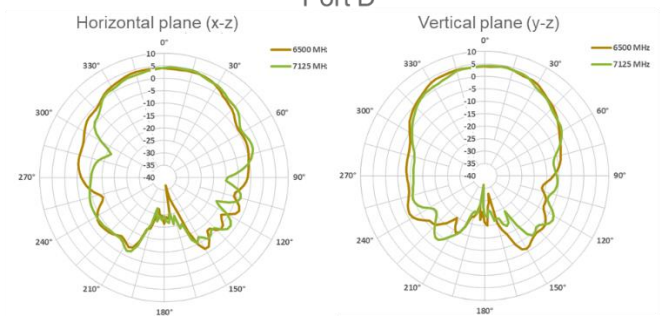
Port B



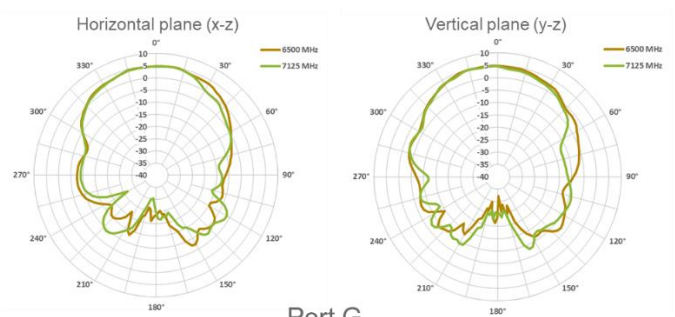
Port C



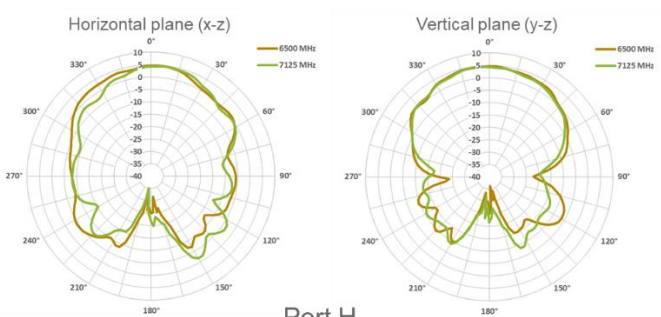
Port D



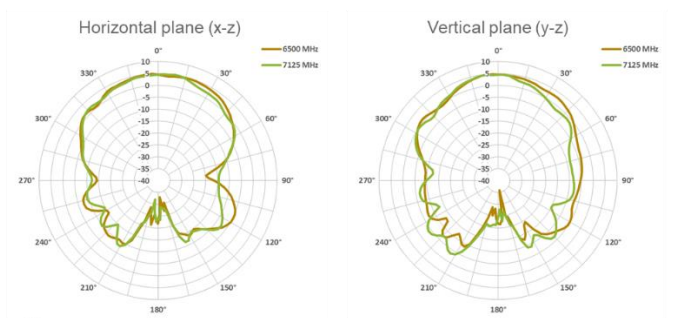
Port E



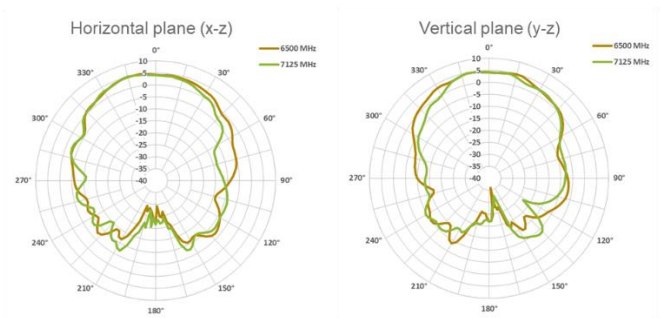
Port F



Port G



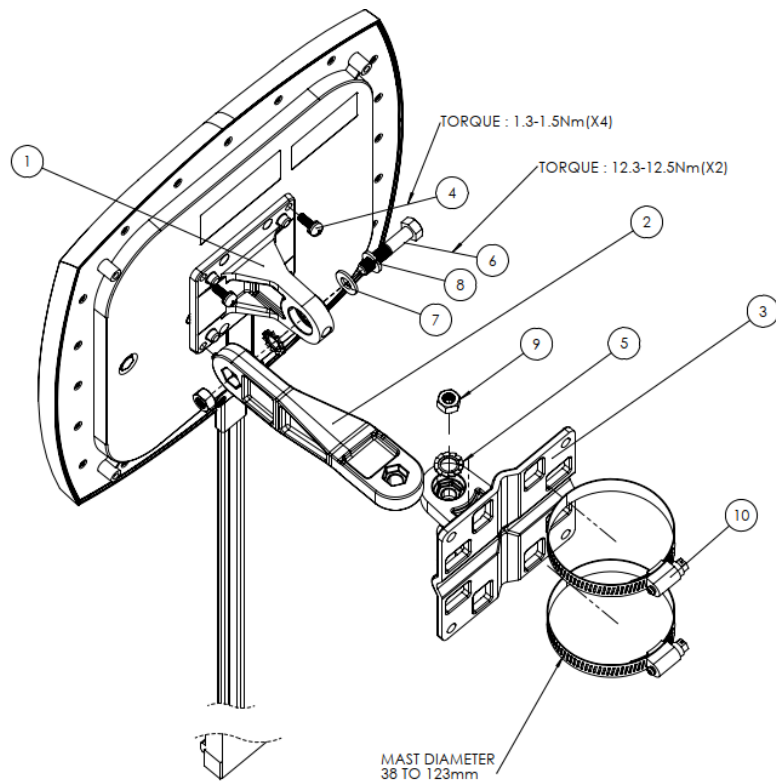
Port H



MOUNTING OPTIONS USING SUPPLIED HARDWARE

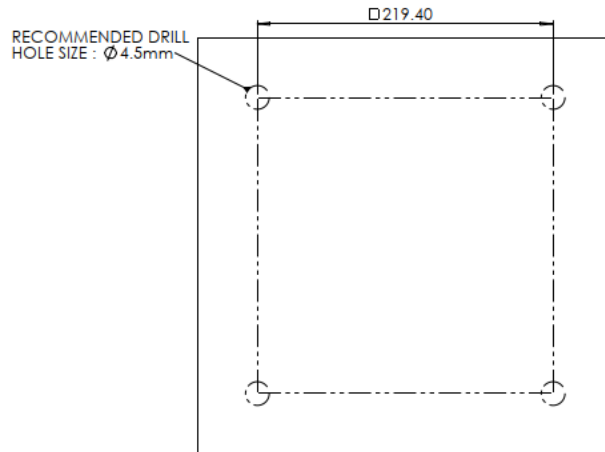
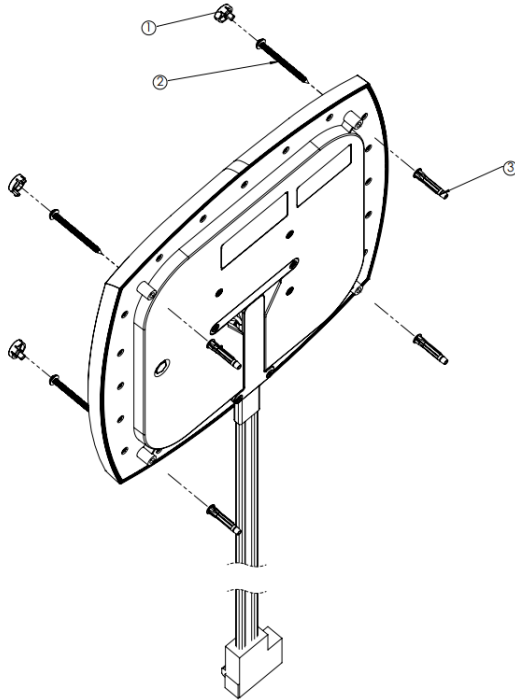
MAST MOUNT

ITEM NO	PARTNUMBER	DESCRIPTION	QTY
1	L001087-01	AP FRAME	1
2	L001088-01	BRACKET ARM	1
3	L001089-01	MAIN FRAME	1
4	L001111-01	SCREW + WASHER	4
5	L001112-01	STAR WASHER	2
6	017844	SCREW, HHC, [5/16-18 x 1-5/8"], SS, PA	2
7	013402	WASHER, FLAT, [5/16"], SS, PA	2
8	010119	WASHER, SPLIT-LOCK, [5/16"], SS, PA	2
9	010118	NUT, HEX, [5/16-18], SS, PA	2
10	101-00222	CLAMP, HOSE, WORM-GEAR	2



WALL MOUNT

ITEM NO	PART NUMBER	DESCRIPTION	QTY
1	L001012-01	INJ MOLD, CAP PLUG	4
2	101-00219	SCR,PPH,SS,SELF TAP	4
3	105-00013	ANCHOR, TWIST ACTION, No. 6-8, 1-1/4" LG	4



TE TECHNICAL SUPPORT CENTER

USA:	+1 (800) 522-6752
Canada:	+1 (905) 475-6222
Mexico:	+52 (0) 55-1106-0800
Latin/S. America:	+54 (0) 11-4733-2200
Germany:	+49 (0) 6251-133-1999
UK:	+44 (0) 800-267666
France:	+33 (0) 1-3420-8686
Netherlands:	+31 (0) 73-6246-999
China:	+86 (0) 400-820-6015

TE Connectivity Corporation
2801 Fulling Mill Rd,
Middletown PA,
17057 United States

te.com

TE, TE Connectivity, TE connectivity (logo), and EVERY CONNECTION COUNTS are trademarks owned or licensed by the TE Connectivity plc family of companies. Other product names, logos, and company names mentioned herein may be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. Antenna performance may vary. TE is a component manufacturer, and the customer and/or end-user is responsible for all end-use suitability determinations, as well as any applicable compliance and regulatory requirements. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each product for the specific application.

©2025 TE Connectivity. All Rights Reserved.

03/25 Original