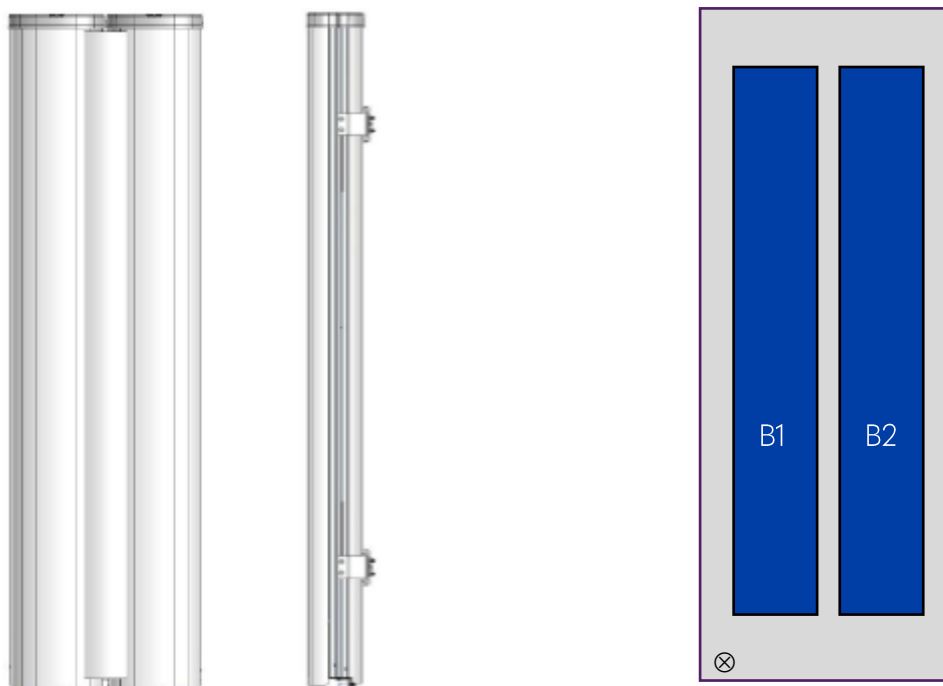


110545

CMA-BDHH/3324/E0-6

4-port antenna	Unit	B1	B2
Frequency range	MHz	1710 - 2180	1710 - 2180
Polarization		x	x
HBW	°	33	33
Gain	dBi	24	24
EDT range	°	0 - 6	0 - 6



Product architecture

Rural coverage:

Maximizes high-band coverage and achieves better load-balancing, cell-coverage, throughput, indoor coverage and subscriber satisfaction. Especially relevant when upgrading existing sites with new frequencies.

High capacity:

Increases CINR and maximizes spectrum efficiency (b/s/Hz), improving network throughput. Allows addition of more subscribers and maximizes the value of the investment in network and spectrum.

Road coverage:

Achieves virtually seamless cell-edge coverage, reduces dropped calls for people on the move and increases overall subscriber satisfaction.

Load balancing:

Relieves congestion on the low band by allowing greater use of the much greater high-band capacity. People who really need the low band can access it, and subscribers throughout the network experience higher throughput.

Indoor penetration/urban coverage:

Significantly improves indoor coverage in both rural and urban environments by upgrading the quality of the "last mile". This allows all users to enjoy all spectrum and secure high-band coverage, even deep indoors.

110545

CMA-BDHH/3324/E0-6

Electrical Parameters B and B2:

Parameter (Radiation)				
Frequency band	MHz	1710 - 1880	1850 - 1990	1920 - 2180
Gain	dBi	22.7	23.0	23.4
Azimuth Parameters				
Azimuth (3dB) Beam Width	°	35	34	33
Azimuth Beam Squint	°	2	2	3
Front to Back Ratio (total power)	dB	>29	>29	>28
Cross-Polar Discrimination (0°)	dB	>22	>20	>16
Sector Power Ratio	%			
Elevation Parameters				
Elevation (3 dB) Beam Width	°	4.5	4.2	4.0
Electrical Downtilt Range	°	0 - 6	0 - 6	0 - 6
First upper Sidelobe suppression	dB	>16	>16	>15
First Nullfill Below Horizon	dB	-24	-25	-26

Parameter (ports)				
Frequency band	MHz	1710 - 1880	1850 - 1990	1920 - 2180
Impedance	Ω	50		
VSWR/Return Loss	_/dB	1.5 / 14		
Intra Array Isolation	dB	28	28	28
Inter Array Isolation	dB	28	28	28
Passive Intermodulation @ 2x43 dBm CW	dBc	<-155		
Maximum input Power per port	W	200		
Maximum aggregated input power R1, R2, R3	W	500		
Antenna Insertion Loss	dB	0.5	0.5	0.5

Mechanical parameters:

Mechanical specification:	
Connectors	4 x 7 - 16 female
Connector position	Bottom / Back
Lightning protection	DC grounded
Height mm (inch)	2070 (81.5)
Width mm (inch)	595 (23.4)
Depth mm (inch)	190 (7.5)
Antenna weight kg (lb)	48 (106)
Wind load at 42 m/s (94 mph)	
Frontal N (lbf)	1339 (301)
Lateral N (lbf)	241 (54)
Survival wind speed m/s (mph)	67 (151)
EPA m ² (inch ²)	1.21 (1882)
Colour radome	Light Grey, RAL 7035
Radome material	ASA
Mounting hardware:	
Mounting bracket	2
Bracket weight (complete) kg (lb)	5.4 (12)
Pole diameter mm (inch)	45 (1.8) - 120 (4.7)
Mechanical tilt range °	0 - 5

Packing data	
Box size mm (inch)	2153 x 621 x 231 (84.8 x 2.4 x 9.1)
Box weight kg (lb)	59 (130)
Maximum number of boxes per pallet	10

Ordering information:

Product number	Product description
110540	CMA-BDHH/3324/E0-6/MET including standard tilt mount
110545	CMA-BDHH/3324/E0-6/RET including standard tilt mount

RET info

The RET actuator is AISG compatible and signals Single-Antenna RET Device type 0x01 (hex) in AISG protocol layer 2 as described in 3GPP TS25.462 (a.k.a. TYPE 1).

One RET actuator per antenna column, with individual AISG connectors in and out.

Type CMA-RET-02

RET spare part order number: 110086.

110545

CMA-BDHH/3324/E0-6



Bottom View

Connector	Column	Notes
1 - 2	B1	
3 - 4	B2	