

33°

2690 mm

INTEGRATED RET

SITE SHARING OPTIONAL

## B3-BBLL26-N0

B3-BBLL26-N0N, B3-BBLL26-S0, B3-BBLL26-S0N

### Features

- 4 ports / 2 cross pol systems in low band (698-960 MHz), 33°
- 4 ports / 2 cross pol systems in high band (1710-2690 MHz), 33°
- Supporting 4x4 MIMO
- Integrated and field replaceable SRET
- Optional with Site Sharing feature (Model name suffix -S0, -S0N)
- Optional with Direct Pipe No Tilt mounting hardware (Model name suffix -N0N, -S0N)
- Compliant with AISG v2.0 and 3GPP



<b>PRODUCT OVERVIEW</b>	Frequency Range (MHz)	(2x) 698-960		(2x) 1710-2690	
	Array	■ R1	■ R2	■ Y1	■ Y2
	Connector	1-2	3-4	5-6	7-8
		8 PORTS			
	Polarization	XPOL			
	Azimuth Beamwidth (avg)	33°		33°	
	Electrical Downtilt	2-10°		2-10°	
Dimensions	2690 x 585 x 155 mm (105.9 x 23.0 x 6.1 in)				

### ORDERING OPTIONS Select from the following ordering options

ANTENNA MODEL NUMBER	CONFIGURATION	MOUNTING HARDWARE	MOUNTING PIPE DIAMETER	SHIPPING WEIGHT	MOUNTING HARDWARE WEIGHT
B3-BBLL26-N0	ACU-I20-B4 Internal RET Included	APM50-B2 Beam Tilt Kit Included	60-110 mm (2.4-4.3 in)	58.4 kg (128.7 lbs)	6.3 kg (13.9 lbs)
B3-BBLL26-N0N	ACU-I20-B4 Internal RET Included	APM50-B2N Direct Pipe No Tilt Mounting Kit Included	60-110 mm (2.4-4.3 in)	55.7 kg (122.8 lbs)	3.6 kg (7.9 lbs)
B3-BBLL26-S0	ACU-X20-B4 Internal RET for Site Sharing Included	APM50-B2 Beam Tilt Kit Included	60-110 mm (2.4-4.3 in)	58.4 kg (128.7 lbs)	6.3 kg (13.9 lbs)
B3-BBLL26-S0N	ACU-X20-B4 Internal RET for Site Sharing Included	APM50-B2N Direct Pipe No Tilt Mounting Kit Included	60-110 mm (2.4-4.3 in)	55.7 kg (122.8 lbs)	3.6 kg (7.9 lbs)



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### ELECTRICAL SPECIFICATIONS

■ R1

Frequency Range		MHz	698-960		
		MHz	698-806	790-894	880-960
Polarization		---	±45°		
Gain	Over all Tilts	dBi	16.5 ± 0.5	16.8 ± 0.3	16.9 ± 0.4
	Max Gain	dBi	17	17.1	17.3
Azimuth Beamwidth (3 dB)		degrees	36.8° ± 3°	32.3° ± 2.6°	29.5° ± 1.2°
Elevation Beamwidth (3 dB)		degrees	18.1° ± 1.4°	16.3° ± 1.2°	14.5° ± 0.6°
Electrical Downtilt		degrees	2-10°		
Impedance		Ohms	50Ω		
VSWR (Return Loss)		---	1.5:1 (-14 dB)		
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	-153		
Front-to-Back Ratio, Total Power, ± 30°		dB	21.9	23.5	23.4
First Upper Side Lobe Suppression		dB	18.2	18	15.6
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	16	17.3	17.9
Maximum Effective Power Per Port		Watts	350 W		
Cross Polar Isolation		dB	26		
Interband Isolation		dB	26		

Specifications follow BASTA guidelines.

### ELECTRICAL SPECIFICATIONS

■ R2

Frequency Range		MHz	698-960		
		MHz	698-806	790-894	880-960
Polarization		---	±45°		
Gain	Over all Tilts	dBi	16.5 ± 0.5	16.8 ± 0.3	16.9 ± 0.4
	Max Gain	dBi	17	17.1	17.3
Azimuth Beamwidth (3 dB)		degrees	37.3° ± 3.4°	32.3° ± 2.5°	29.6° ± 1.2°
Elevation Beamwidth (3 dB)		degrees	17.1° ± 1.3°	15.4° ± 1.1°	13.8° ± 0.5°
Electrical Downtilt		degrees	2-10°		
Impedance		Ohms	50Ω		
VSWR (Return Loss)		---	1.5:1 (-14 dB)		
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	-153		
Front-to-Back Ratio, Total Power, ± 30°		dB	23	23.2	22.7
First Upper Side Lobe Suppression		dB	16.4	14.8	14.2
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	15.8	16.9	17.1
Maximum Effective Power Per Port		Watts	350 W		
Cross Polar Isolation		dB	26		
Interband Isolation		dB	26		

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### ELECTRICAL SPECIFICATIONS

■ Y1

Frequency Range		MHz	1710-2690				
		MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690
Polarization		---	±45°				
Gain	Over all Tilts	dBi	19.9 ± 0.5	19.9 ± 0.4	19.9 ± 0.5	19.2 ± 0.5	18.9 ± 0.8
	Max Gain	dBi	20.4	20.3	20.4	19.7	19.7
Azimuth Beamwidth (3 dB)		degrees	30.8° ± 1.3°	32.2° ± 1.2°	33.6° ± 2.4°	35.2° ± 1.2°	29.3° ± 4.5°
Elevation Beamwidth (3 dB)		degrees	7° ± 0.4°	6.5° ± 0.4°	6.2° ± 0.4°	5.6° ± 0.3°	5° ± 0.3°
Electrical Downtilt		degrees	2-10°				
Impedance		Ohms	50Ω				
VSWR (Return Loss)		---	1.5:1 (-14 dB)				
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	-153				
Front-to-Back Ratio, Total Power, ± 30°		dB	23.9	23.2	24.2	22	21.9
First Upper Side Lobe Suppression		dB	17.3	16.7	16.5	20.2	16.9
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	21.5	19.1	20.1	24.2	19.1
Maximum Effective Power Per Port		Watts	250 W				
Cross Polar Isolation		dB	26				
Interband Isolation		dB	26				

Specifications follow BASTA guidelines.

### ELECTRICAL SPECIFICATIONS

■ Y2

Frequency Range		MHz	1710-2690				
		MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690
Polarization		---	±45°				
Gain	Over all Tilts	dBi	19.4 ± 0.4	19.3 ± 0.4	19.2 ± 0.4	18.5 ± 0.5	18.3 ± 0.9
	Max Gain	dBi	19.8	19.7	19.6	19	19.2
Azimuth Beamwidth (3 dB)		degrees	31.1° ± 1.8°	33.1° ± 0.8°	34.1° ± 1.6°	35.2° ± 1.7°	29.5° ± 5.5°
Elevation Beamwidth (3 dB)		degrees	7.1° ± 0.5°	6.4° ± 0.3°	6.1° ± 0.5°	5.5° ± 0.3°	5° ± 0.3°
Electrical Downtilt		degrees	2-10°				
Impedance		Ohms	50Ω				
VSWR (Return Loss)		---	1.5:1 (-14 dB)				
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	-153				
Front-to-Back Ratio, Total Power, ± 30°		dB	22.5	23.2	23.3	22	20.2
First Upper Side Lobe Suppression		dB	16.8	15.6	15	13.8	13.2
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	22.8	21.1	21.3	21.1	17.4
Maximum Effective Power Per Port		Watts	250 W				
Cross Polar Isolation		dB	26				
Interband Isolation		dB	26				

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B3-BBLL26-N0N, B3-BBLL26-S0, B3-BBLL26-S0N

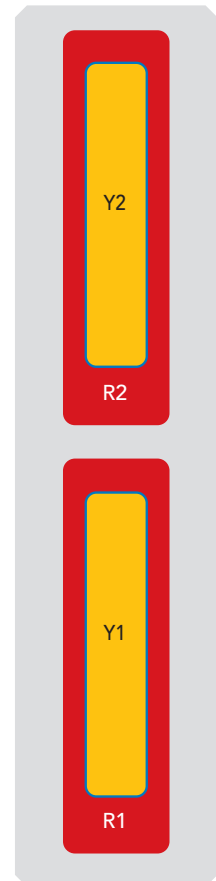
### BOTTOM VIEW - LABELING



### ARRAY LAYOUT

ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE	RET	AISG RET UID
<span style="color: red;">■</span> R1	698-960 MHz	1-2	(2x) 4.3-10 Female	R1	RFxxxxxxxxxx-R1
<span style="color: red;">■</span> R2	698-960 MHz	3-4	(2x) 4.3-10 Female	R2	RFxxxxxxxxxx-R2
<span style="color: yellow;">■</span> Y1	1710-2690 MHz	5-6	(2x) 4.3-10 Female	Y1	RFxxxxxxxxxx-Y1
<span style="color: yellow;">■</span> Y2	1710-2690 MHz	7-8	(2x) 4.3-10 Female	Y2	RFxxxxxxxxxx-Y2

**NOTE: RET motors will tilt one at a time, not simultaneously**



*The illustration is not shown to scale.*

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### MECHANICAL SPECIFICATIONS

Length	mm (in)	2690 (105.9)
Width	mm (in)	585 (23.0)
Depth	mm (in)	155 (6.1)
Net Weight - Antenna Only	kg (lbs)	44.2 (94.4)
Wind Load Rated at 150 km/h (93 mph)	Front	N (lbf) 1842 (414)
	Side	N (lbf) 820 (184)
	Rear	N (lbf) 1402 (315)
Survival Wind Speed	km/h (mph)	200 (124)
Connector Type	--	(8x) 4.3-10 Female, (2x) AISG Connectors (1 Male, 1 Female) at Bottom
Radome Color	---	Light Grey RAL7035
Radome Material	---	Fiberglass
Lightning Protection	---	Direct Ground
<b>Shipping</b>	Packing Size (Length x Width x Depth)	mm (in) 2940 x 680 x 250 (115.8 x 26.8 x 9.8)

### ENVIRONMENTAL SPECIFICATIONS

Environmental Standard	---	ETS 300 019
Operating Temperature	degrees	-40° to +60° C (-40° to +140° F)
Product Environmental Compliance	---	Product is RoHS Compliant

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### ACCESSORIES

Accessories may be ordered separately unless otherwise indicated.

ITEM	MODEL NUMBER	WEIGHT
Beam Tilt Mounting Bracket Kit for Pole Diameter 60-110 mm (2.4-4.3 in) <i>Refer to ordering options</i>	APM50-B2	6.3 kg (13.9 lbs)
Direct Pipe No Tilt Bracket Kit for Pole Diameter 60-110 mm (2.4-4.3 in) <i>Refer to ordering options</i>	APM50-B2N	3.6 kg (7.9 lbs)

### INSTALLATION

Please read all installation notes before installing product.

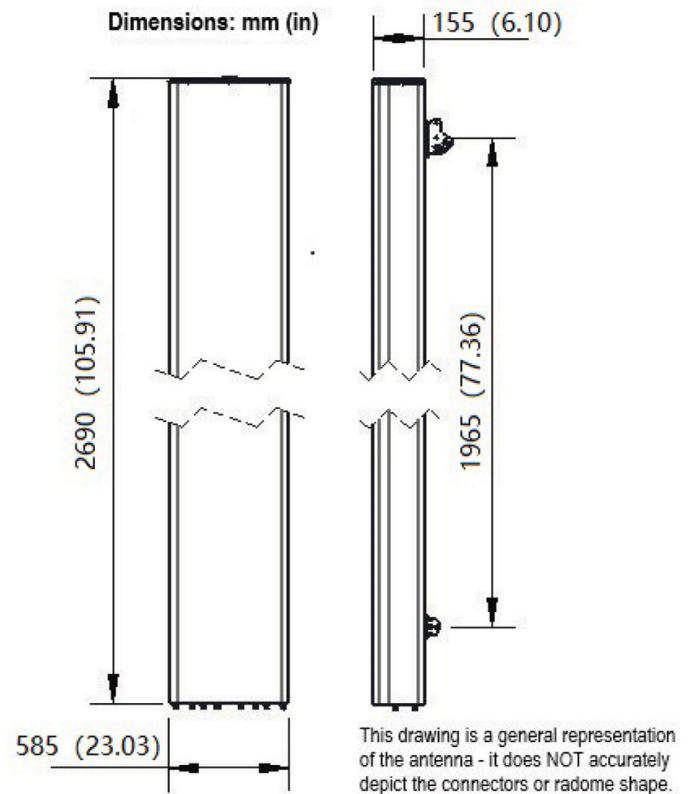


Always attach the antenna using all mounting points.

Do not install antenna with the connectors facing upwards.

### EXTERNAL DOCUMENT LINKS

[APM50 Mounting Kit Series Installation Instructions](#)



### NOTES

Specifications follow BASTA guidelines.

For additional mounting information, please check **External Document Links**.

For Radiating Patterns: [Request pattern files](#)