

Site Sharing
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Site Approvals

Base Station Antenna Product Guide

- Stadium and Multibeam Antennas
- Low Band Antennas
- High Band Antennas
- Multi-Band Antennas

Stadium and Multibeam Antenna Selection Guide

Stadium and Multibeam Antennas														
Model	Frequency (MHz)	Polarization	Tilt (Degree)	Gain (dBi)	HBW (Degree)	VBW (Degree)	USLS (dB)	F/B (dB)	Isolation (dB)	VSWR	Max. Input Power (W)	Weight (kg/lb)	Length (mm/in)	Width (mm/in)
2x9NPA2010F	1710–2170	VPOL	±4°	27.0	5	5.8	18	30	16	1.43:1	300	140 / 308.6	1771 / 69.7	1486 / 58.5
5NPX1006F	1710–2170	±45°	6	23.0	11	11.0	18	30	25	1.43:1	300	30 / 66.1	890 / 35	865 / 34.1
CNLPA3055F	790–960	VPOL	0	11.0	55	55.5	-	38	-	1.5:1	50	30 / 66.1	850 / 33.5	1350 / 53.1
	1710–2170	VPOL	0	11.1	50	49.5	-	43	-	1.5:1	50			
	2300–2690	VPOL	0	11.7	46	46.3	-	45	-	1.5:1	50			
2CPX208M-V1	824–960	±45°	0–10	18.5	35	9.5	18	25	25	1.29:1	500	32 / 70.5	2090 / 82.3	510 / 20.1
2CPX208R-V1	824–960	±45°	0–10	18.5	35	9.5	18	25	25	1.3:1	500	32.5 / 71.7	2090 / 82.3	504 / 19.8
2NPX210R-V1	1710–2170	±45°	0–10	19.2	34	6.8	18	30	22	1.43:1	300	18.5 / 40.8	1330 / 52.4	370 / 14.7
2UNPX203.6R2	698–894	±45°	0–10	14.5	33	21.0	15	20	22	1.43:1	500	29.5 / 65	1745 / 68.7	564 / 22.2
	1710–2170	±45°	0–10	17.5	35	11.0	15	30	20	1.43:1	300			
HBXX-3817TB1-VTM	1710–2180	±45°	0–10	19.3	34	6.7	21	29	30	1.4:1	250	16.5 / 36.4	1390 / 54.7	301 / 11.9

Note: Specifications are subject to change without notice. See www.commscope.com for the most current information.

Product Specifications

COMMScope®

2x9NPA2010F

Argus® Multibeam Antenna, 1710–2170 MHz, 2x9 Beam Panel Antenna for Event Coverage. Two rows of beams spaced 8° in elevation (one set of beams 4° up and one set of beams 4° down) and 5° in azimuth. Upper and lower beams displaced in azimuth by 2.5°.

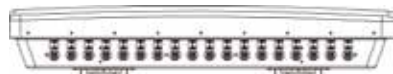


Electrical Specifications

Frequency Band, MHz	1710–1920	1920–2170
Gain, dBi	25.0	27.0
Beamwidth, Horizontal, degrees	6	5
Beamwidth, Vertical, degrees	7.2	5.8
USLS, dB	18	18
Front-to-Back Ratio at 180°, dB	30	30
Isolation, dB	16	16
VSWR Return Loss, dB	1.43 15.0	1.43 15.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150
Input Power per Port, maximum, watts	300	300
Polarization	±45°	±45°

Mechanical Specifications

Color Radome Material	Light gray ASA
Connector Interface Location Quantity	7-16 DIN Female Bottom 18
Wind Loading, maximum	2800.0 N @ 160 km/h 629.5 lbf @ 160 km/h
Antenna Dimensions, L x W x D	1771.0 mm x 1486.0 mm x 283.0 mm 69.7 in x 58.5 in x 11.1 in
Net Weight	140.0 kg 308.6 lb



Product Specifications

COMMScope®

5NPX1006F

Argus® Multibeam Antenna, 1710–2170 MHz, 5x 10–14°
horizontal beamwidth, fixed electrical tilt



Electrical Specifications

Frequency Band, MHz	1710–1920	1920–2170
Gain, dBi	22.0	23.0
Beamwidth, Horizontal, degrees	12	11
Beamwidth, Vertical, degrees	12.0	11.0
Beam Tilt, degrees	6	6
USLS, dB	18	18
Front-to-Back Ratio at 180°, dB	30	30
Isolation, dB	25	25
VSWR Return Loss, dB	1.43 15.0	1.43 15.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150
Input Power per Port, maximum, watts	300	300
Polarization	±45°	±45°

Mechanical Specifications

Color Radome Material	Gray ASA, UV stabilized
Connector Interface Location Quantity	7-16 DIN Female Bottom 10
Wind Loading, maximum	1060.0 N @ 160 km/h 238.3 lbf @ 160 km/h
Antenna Dimensions, L x W x D	890.0 mm x 865.0 mm x 250.0 mm 35.0 in x 34.1 in x 9.8 in
Net Weight	30.0 kg 66.1 lb



Product Specifications

COMMScope®

CNLPA3055F

Argus® Stadium Tri-band Antenna, 790–960, 1710–2170, and 2300–2690 MHz, 50° horizontal beam. This triband antenna produces rectangular patterns with sharp cutoff for illuminating a section of the crowd. The three bands are internally triplexed, allowing a single connector interface to be used.



Electrical Specifications

Frequency Band, MHz	790–960	1710–2170	2300–2690
Gain by all Beam Tilts, average, dBi	11.0	11.1	11.7
Gain by all Beam Tilts Tolerance, dB	±0.8	±0.7	±0.6
Beamwidth, Horizontal, degrees	55	50	46
Beamwidth, Horizontal at 20 dB, degrees	91	83	75
Beamwidth, Horizontal Tolerance, degrees	±4.7	±5.2	±2.4
Beamwidth, Vertical, degrees	55.5	49.5	46.3
Beamwidth, Vertical Tolerance, degrees	±5.5	±5.1	±2.3
Beam Tilt, degrees	0	0	0
Front-to-Back Ratio at 180°, dB	38	43	45
VSWR Return Loss, dB	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150
Input Power per Port, maximum, watts	50	50	50
Polarization	Vertical	Vertical	Vertical

Mechanical Specifications

Connector Interface Location Quantity	7-16 DIN Female Bottom 1
Wind Speed, maximum	200.0 km/h 124.3 mph
Antenna Dimensions, L x W x D	850.0 mm x 1350.0 mm x 120.0 mm 33.5 in x 53.1 in x 4.7 in
Net Weight	30.0 kg 66.1 lb



Product Specifications

COMMScope®

2CPX208M-V1

Argus® Twin Beam Antenna, 824–960 MHz, 37° horizontal beamwidth, with manual electrical tilt (not upgradeable)



Electrical Specifications

Frequency Band, MHz	824–890	890–960
Gain, dBi	18.0	18.5
Beam Centers, Horizontal, degrees	±27	±27
Beamwidth, Horizontal, degrees	39	35
Beamwidth, Vertical, degrees	10.0	9.5
Beam Tilt, degrees	0–10	0–10
USLS, dB	18	18
Front-to-Back Ratio at 180°, dB	25	25
Isolation, dB	25	25
VSWR Return Loss, dB	1.29 18.0	1.29 18.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150
Input Power per Port, maximum, watts	500	500
Polarization	±45°	±45°

Mechanical Specifications

Connector Interface | Location | Quantity 7-16 DIN Female | Bottom | 4

Wind Loading, maximum 1500.0 N @ 160 km/h
337.2 lbf @ 160 km/h

Wind Speed, maximum 200.0 km/h | 124.3 mph

Antenna Dimensions, L x W x D 2090.0 mm x 510.0 mm x 108.0 mm | 82.3 in x 20.1 in x 4.3 in

Net Weight 32.0 kg | 70.5 lb



Product Specifications

COMMScope®

2CPX208R-V1

Argus® Twin Beam Antenna, 824–960 MHz, 37° horizontal beamwidth, internal electrical tilt with manual override.



Electrical Specifications

Frequency Band, MHz	824–890	890–960
Gain, dBi	18.0	18.5
Beam Centers, Horizontal, degrees	±27	±27
Beamwidth, Horizontal, degrees	39	35
Beamwidth, Vertical, degrees	10.0	9.5
Beam Tilt, degrees	0–10	0–10
USLS, dB	18	18
Front-to-Back Ratio at 180°, dB	25	25
Isolation, dB	25	25
VSWR Return Loss, dB	1.3 17.7	1.3 17.7
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150
Input Power per Port, maximum, watts	500	500
Polarization	±45°	±45°

Mechanical Specifications

Connector Interface Location Quantity	7-16 DIN Female Bottom 4
Wind Loading, maximum	1500.0 N @ 160 km/h 337.2 lbf @ 160 km/h
Wind Speed, maximum	200.0 km/h 124.3 mph
Antenna Dimensions, L x W x D	2090.0 mm x 504.0 mm x 118.0 mm 82.3 in x 19.8 in x 4.6 in
Net Weight	32.5 kg 71.7 lb



Product Specifications

COMMScope®

2NPX210R-V1

Argus® Twin Beam Antenna, 1710–2170 MHz, 35° horizontal beamwidth, internal electrical tilt with manual override. Horizontal Beamwidth at $\pm 31^\circ$.



Electrical Specifications

Frequency Band, MHz	1710–1920	1920–2170
Gain, dBi	18.2	19.2
Beamwidth, Horizontal, degrees	40	34
Beamwidth, Vertical, degrees	7.6	6.8
Beam Tilt, degrees	0–10	0–10
USLS, dB	18	18
Front-to-Back Ratio at 180°, dB	30	30
Isolation, dB	22	22
VSWR Return Loss, dB	1.43 15.0	1.43 15.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150
Input Power per Port, maximum, watts	300	300
Polarization	$\pm 45^\circ$	$\pm 45^\circ$

Mechanical Specifications

Connector Interface Location Quantity	7-16 DIN Female Bottom 4
Wind Loading, maximum	720.0 N @ 160 km/h 161.9 lbf @ 160 km/h
Wind Speed, maximum	200.0 km/h 124.3 mph
Antenna Dimensions, L x W x D	1330.0 mm x 370.0 mm x 120.0 mm 52.4 in x 14.6 in x 4.7 in
Net Weight	18.5 kg 40.8 lb



Product Specifications

COMMScope®

2UNPX203.6R2

Argus® Dual Band Twin Beam Antenna, 698–894 and 1710–2170 MHz, 37° horizontal beamwidth, internal electrical tilt.



Electrical Specifications

Frequency Band, MHz	698–790	790–894	1710–1920	1920–2170
Gain, dBi	13.8	14.5	16.2	17.5
Beam Centers, Horizontal, degrees	±28	±28	±30	±30
Beamwidth, Horizontal, degrees	40	33	42	35
Beamwidth, Vertical, degrees	24.0	21.0	12.0	11.0
Beam Tilt, degrees	1–16	1–16	0–10	0–10
USLS, dB	15	15	15	15
Front-to-Back Ratio at 180°, dB	20	20	30	30
Isolation, dB	22	22	20	20
VSWR Return Loss, dB	1.43 15.0	1.43 15.0	1.43 15.0	1.43 15.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150
Input Power per Port, maximum, watts	500	500	300	300
Polarization	±45°	±45°	±45°	±45°

Mechanical Specifications

Connector Interface | Location | Quantity 7-16 DIN Female | Bottom | 8

Wind Loading, maximum 1550.0 N @ 160 km/h
348.5 lbf @ 160 km/h

Wind Speed, maximum 200.0 km/h | 124.3 mph

Antenna Dimensions, L x W x D 1745.0 mm x 564.0 mm x 127.0 mm | 68.7 in x 22.2 in x 5.0 in

Net Weight 29.5 kg | 65.0 lb



Product Specifications

HBXX-3817TB1-VTM

Andrew® Twin Beam Capacity Antenna, 1710–2180 MHz, 2x
38° horizontal beamwidth, RET compatible



Electrical Specifications

Frequency Band, MHz	1710–1880	1850–1990	1920–2180
Gain by all Beam Tilts, average, dBi	18.9	19.1	19.3
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.4	±0.6
Gain by Beam Tilt, average, dBi	0 ° 18.7	0 ° 18.9	0 ° 19.3
	5 ° 19.0	5 ° 19.2	5 ° 19.5
	10 ° 18.9	10 ° 19.1	10 ° 19.0
Beam Centers, Horizontal, degrees	±27	±27	±27
Beamwidth, Horizontal, degrees	38	36	34
Beamwidth, Horizontal Tolerance, degrees	±1.5	±1.3	±2.2
Beamwidth, Vertical, degrees	7.5	7.1	6.7
Beamwidth, Vertical Tolerance, degrees	±0.4	±0.3	±0.5
Beam Tilt, degrees	0–10	0–10	0–10
Horizontal Sidelobe, dB	20	20	20
USLS, dB	20	20	21
Gain Roll-off at Boresite, dB	9	9	9
Gain Roll-off at Boresite Tolerance, dB	±2	±2	±2
Front-to-Back Total Power at 180° ± 30°, dB	30	31	29
Isolation, Cross Polarization, port to port, dB	30	30	30
VSWR Return Loss, dB	1.4 15.6	1.4 15.6	1.4 15.6
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150
Input Power per Port, maximum, watts	250	250	250
Polarization	±45°	±45°	±45°

*Values calculated using NGMN Alliance N-P-BASTA v9.6

Mechanical Specifications

Color Radome Material	Light gray Fiberglass, UV resistant
Connector Interface Location Quantity	7-16 DIN Female Bottom 4
Wind Loading, maximum	438.0 N @ 150 km/h 98.5 lbf @ 150 km/h
Wind Speed, maximum	241.0 km/h 149.8 mph
Antenna Dimensions, L x W x D	1390.0 mm x 301.0 mm x 181.0 mm 54.7 in x 11.9 in x 7.1 in
Net Weight	16.5 kg 36.4 lb
Model with factory installed AISG 2.0 RET HBXX-3817TB1-A2M	



Low Band Base Station Antenna Selection Guide

Single Band														
Model	Frequency (MHz)	Polarization	Tilt (Degree)	Gain (dBi)	HBW (Degree)	VBW (Degree)	USLS (dB)	F/B (dB)	Isolation (dB)	VSWR	Max. Input Power (W)	Weight (kg/lb)	Length (mm/in)	Width (mm/in)
33° Horizontal Beamwidth Models														
LDX-3316DS-VTM	790–960	±45°	2–12	17.9	32	15.0	14	29	30	1.4:1	300	17.9 / 39.5	1306 / 51.4	591 / 23.3
65° Horizontal Beamwidth Models														
LDX-6513DS-VTM	790–960	±45°	0–15	15.2	65	14.0	16	30	30	1.4:1	350	9.3 / 20.5	1294 / 50.9	269 / 10.6
LDX-6515DSP-VTM	790–960	±45°	0–10	17.1	65	8.1	17	28	30	1.4:1	350	17.9 / 39.4	2339 / 92.1	269 / 10.6
LDX-6515DS-VTM	790–960	±45°	0–10	16.4	64	9.7	18	24	30	1.4:1	350	15.0 / 33.1	2070 / 81.5	269 / 10.6
LDX-6516DS-VTM	790–960	±45°	0–8	17.5	64	7.1	19	24	30	1.4:1	350	21.0 / 46.3	2574 / 101.3	269 / 10.6
85°/90° Horizontal Beamwidth Models														
LRX-8512DS-VTM	698–960	±45°	0–15	14.0	85	14.4	15	24	30	1.4:1	400	13.6 / 30.0	1293 / 50.9	301 / 11.9
LDX-9013DS-VTM	790–960	±45°	0–10	15.2	90	10.4	16	27	30	1.4:1	300	12.0 / 26.5	1831 / 72.1	225 / 8.9
LDX-9014DS-VTM	790–960	±45°	0–8	15.8	89	7.5	17	22	30	1.4:1	300	18.1 / 39.9	2435 / 95.9	225 / 8.9

Single Band Quad														
Model	Frequency (MHz)	Polarization	Tilt (Degree)	Gain (dBi)	HBW (Degree)	VBW (Degree)	USLS (dB)	F/B (dB)	Isolation (dB)	VSWR	Max. Input Power (W)	Weight (kg/lb)	Length (mm/in)	Width (mm/in)
65° Horizontal Beamwidth Models														
LDXX-6515DS-VTM	2x 790–960	±45°	0–10	17.0	63	9.6	20	27	30	1.4:1	350	35.6 / 78.5	2070 / 81.5	549 / 21.6
LDXX-6516DS-VTM	2x 790–960	±45°	0–8	17.3	64	7.1	17	24	30	1.4:1	350	32.1 / 70.8	2567 / 101.1	549 / 21.6
85°/90° Horizontal Beamwidth Models														
LDXX-9013DS-VTM	2x 790–960	±45°	0–10	15.1	87	10.6	17	27	30	1.5:1	300	30.0 / 66.1	1830 / 72.0	549 / 21.6

Note: Specifications are subject to change without notice. See www.commscope.com for the most current information.

Product Specifications

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LDX-3316DS-VTM

Andrew® Antenna, 790–960 MHz, 33° horizontal beamwidth, RET compatible

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Electrical Specifications

Frequency Band, MHz	790–896	870–960
Gain by all Beam Tilts, average, dBi	17.5	17.9
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.3
Gain by Beam Tilt, average, dBi	2 ° 17.6	2 ° 18.0
	7 ° 17.5	7 ° 18.0
	12 ° 17.5	12 ° 17.7
Beamwidth, Horizontal, degrees	34	32
Beamwidth, Horizontal Tolerance, degrees	±2	±2
Beamwidth, Vertical, degrees	16.0	15.0
Beamwidth, Vertical Tolerance, degrees	±1	±1
Beam Tilt, degrees	2–12	2–12
USLS, dB	14	14
Front-to-Back Total Power at 180° ± 30°, dB	29	29
CPR at Boresight, dB	15	12
Isolation, dB	30	30
VSWR Return Loss, dB	1.4 15.6	1.4 15.6
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150
Input Power per Port, maximum, watts	300	300
Polarization	±45°	±45°

*Values calculated using NGMN Alliance N-P-BASTA v9.6

Mechanical Specifications

Color Radome Material	Light gray Fiberglass, UV resistant
Connector Interface Location Quantity	7-16 DIN Female Bottom 2
Wind Loading, maximum	933.0 N @ 150 km/h 209.7 lbf @ 150 km/h
Wind Speed, maximum	241.6 km/h 150.1 mph
Antenna Dimensions, L x W x D	1306.0 mm x 591.0 mm x 179.0 mm 51.4 in x 23.3 in x 7.0 in
Net Weight	17.9 kg 39.5 lb
Model with factory installed AISG 2.0 RET LDX-3316DS-A1M	



Product Specifications

COMMScope®

LDX-6513DS-VTM

Andrew® Antenna, 790–960 MHz, 65° horizontal beamwidth,
RET compatible variable electrical tilt



Electrical Specifications

Frequency Band, MHz	790–896	870–960
Gain, dBi	15.0	15.2
Beamwidth, Horizontal, degrees	65	65
Beamwidth, Vertical, degrees	15.2	14.5
Beam Tilt, degrees	0–15	0–15
USLS, typical, dB	16	16
Front-to-Back Ratio at 180°, dB	32	30
Isolation, dB	30	30
VSWR Return Loss, dB	1.4 15.6	1.4 15.6
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150
Input Power per Port, maximum, watts	350	350
Polarization	±45°	±45°

Mechanical Specifications

Color Radome Material	Light gray PVC, UV resistant
Connector Interface Location Quantity	7-16 DIN Female Bottom 2
Wind Loading, maximum	402.2 N @ 150 km/h 90.4 lbf @ 150 km/h
Wind Speed, maximum	241.5 km/h 150.0 mph
Antenna Dimensions, L x W x D	1294.0 mm x 269.0 mm x 132.0 mm 50.9 in x 10.6 in x 5.2 in
Net Weight	9.3 kg 20.5 lb
Model with factory installed AISG 2.0 RET LDX-6513DS-A1M	



Product Specifications

COMMScope®

LDX-6515DSP-VTM

Andrew® Antenna, 790–960 MHz, 65° horizontal beamwidth,
RET compatible variable electrical tilt



Electrical Specifications

Frequency Band, MHz	790–896	870–960
Gain, dBi	17.1	17.1
Beamwidth, Horizontal, degrees	65	65
Beamwidth, Vertical, degrees	8.7	8.1
Beam Tilt, degrees	0–10	0–10
USLS, typical, dB	17	16
Front-to-Back Ratio at 180°, dB	27	28
Isolation, dB	30	30
VSWR Return Loss, dB	1.4 15.6	1.4 15.6
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150
Input Power per Port, maximum, watts	350	350
Polarization	±45°	±45°

Mechanical Specifications

Color Radome Material	Light gray PVC, UV resistant
Connector Interface Location Quantity	7-16 DIN Female Bottom 2
Wind Loading, maximum	828.2 N @ 150 km/h 186.2 lbf @ 150 km/h
Wind Speed, maximum	241.5 km/h 150.0 mph
Antenna Dimensions, L x W x D	2339.0 mm x 269.0 mm x 132.0 mm 92.1 in x 10.6 in x 5.2 in
Net Weight	17.9 kg 39.4 lb
Model with factory installed AISG 2.0 RET LDX-6515DSP-A1M	



Product Specifications

COMMScope®

LDX-6515DS-VTM

Andrew® Antenna, 790–960 MHz, 65° horizontal beamwidth,
RET compatible variable electrical tilt

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Electrical Specifications

Frequency Band, MHz	790–896	870–960
Gain by all Beam Tilts, average, dBi	16.2	16.4
Gain by all Beam Tilts Tolerance, dB	±0.2	±0.3
Gain by Beam Tilt, average, dBi	0 ° 16.1	0 ° 16.3
	5 ° 16.3	5 ° 16.4
	10 ° 16.2	10 ° 16.2
Beamwidth, Horizontal, degrees	64	64
Beamwidth, Horizontal Tolerance, degrees	±1.4	±1
Beamwidth, Vertical, degrees	10.2	9.7
Beamwidth, Vertical Tolerance, degrees	±0.7	±0.4
Beam Tilt, degrees	0–10	0–10
USLS, dB	17	18
Front-to-Back Total Power at 180° ± 30°, dB	25	24
CPR at Boresight, dB	28	25
CPR at Sector, dB	16	14
Isolation, dB	30	30
VSWR Return Loss, dB	1.4 15.6	1.4 15.6
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150
Input Power per Port, maximum, watts	350	350
Polarization	±45°	±45°

*Values calculated using NGMN Alliance N-P-BASTA v9.6

Mechanical Specifications

Color Radome Material	Light gray PVC, UV resistant
Connector Interface Location Quantity	7-16 DIN Female Bottom 2
Wind Loading, maximum	718.0 N @ 150 km/h 161.4 lbf @ 150 km/h
Wind Speed, maximum	241.5 km/h 150.0 mph
Antenna Dimensions, L x W x D	2070.0 mm x 269.0 mm x 132.0 mm 81.5 in x 10.6 in x 5.2 in
Net Weight	15.0 kg 33.1 lb
Model with factory installed AISG 2.0 RET LDX-6515DS-A1M	



Product Specifications

COMMScope®

LDX-6516DS-VTM

Andrew® Antenna, 790–960 MHz, 65° horizontal beamwidth,
RET compatible variable electrical tilt

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Electrical Specifications

Frequency Band, MHz	790–896	870–960
Gain by all Beam Tilts, average, dBi	17.3	17.5
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.3
Gain by Beam Tilt, average, dBi	0 ° 17.2 4 ° 17.4 8 ° 17.3	0 ° 17.5 4 ° 17.6 8 ° 17.6
Beamwidth, Horizontal, degrees	64	64
Beamwidth, Horizontal Tolerance, degrees	±1.3	±1
Beamwidth, Vertical, degrees	7.6	7.1
Beamwidth, Vertical Tolerance, degrees	±0.5	±0.3
Beam Tilt, degrees	0–8	0–8
USLS, dB	19	19
Front-to-Back Total Power at 180° ± 30°, dB	25	24
CPR at Boresight, dB	24	22
CPR at Sector, dB	17	16
Isolation, dB	30	30
VSWR Return Loss, dB	1.4 15.6	1.4 15.6
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153
Input Power per Port, maximum, watts	350	350
Polarization	±45°	±45°

*Values calculated using NGMN Alliance N-P-BASTA v9.6

Mechanical Specifications

Color Radome Material	Light gray PVC, UV resistant
Connector Interface Location Quantity	7-16 DIN Female Bottom 2
Wind Loading, maximum	922.0 N @ 150 km/h 207.3 lbf @ 150 km/h
Wind Speed, maximum	201.0 km/h 124.9 mph
Antenna Dimensions, L x W x D	2574.0 mm x 269.0 mm x 132.0 mm 101.3 in x 10.6 in x 5.2 in
Net Weight	21.0 kg 46.3 lb
Model with factory installed AISG 2.0 RET	LDX-6516DS-A1M



Product Specifications

COMMScope®

LRX-8512DS-VTM

Andrew® Antenna, 698–960 MHz, 85° horizontal beamwidth, RET compatible



Electrical Specifications

Frequency Band, MHz	698–806	806–896	870–960
Gain, dBi	13.5	13.9	14.0
Beamwidth, Horizontal, degrees	85	85	85
Beamwidth, Vertical, degrees	16.8	15.3	14.4
Beam Tilt, degrees	0–15	0–15	0–15
USLS, typical, dB	16	15	15
Front-to-Back Ratio at 180°, dB	26	25	24
CPR at Boresight, dB	20	27	24
CPR at Sector, dB	13	11	10
Isolation, dB	30	30	30
VSWR Return Loss, dB	1.4 15.6	1.4 15.6	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153
Input Power per Port, maximum, watts	400	400	400
Polarization	±45°	±45°	±45°

Mechanical Specifications

Color | Radome Material Light gray | Fiberglass, UV resistant

Connector Interface | Location | Quantity 7-16 DIN Female | Bottom | 2

Wind Loading, maximum 402.0 N @ 150 km/h
90.4 lbf @ 150 km/h

Wind Speed, maximum 241.4 km/h | 150.0 mph

Antenna Dimensions, L x W x D 1293.0 mm x 301.0 mm x 181.0 mm | 50.9 in x 11.9 in x 7.1 in

Net Weight 13.6 kg | 30.0 lb

Model with factory installed AISG 2.0 RET LRX-8512DS-A1M



Product Specifications

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LDX-9013DS-VTM

Andrew® Antenna, 790–960 MHz, 90° horizontal beamwidth, RET compatible



Electrical Specifications

Frequency Band, MHz	790–896	870–960
Gain, dBi	14.9	15.2
Beamwidth, Horizontal, degrees	90	90
Beamwidth, Vertical, degrees	11.4	10.4
Beam Tilt, degrees	0–10	0–10
USLS by Beam Tilt, dB	0 ° 6 ° 10 ° 14 16 14	0 ° 6 ° 10 ° 14 16 14
Front-to-Back Ratio at 180°, dB	25	27
CPR at Boresight, dB	19	19
CPR at Sector, dB	15	15
Isolation, dB	30	30
VSWR Return Loss, dB	1.5 14.0	1.4 15.6
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150
Input Power per Port, maximum, watts	300	300
Polarization	±45°	±45°

Mechanical Specifications

Color Radome Material	Light gray Fiberglass, UV resistant
Connector Interface Location Quantity	7-16 DIN Female Bottom 2
Wind Loading, maximum	391.5 N @ 150 km/h 88.0 lbf @ 150 km/h
Wind Speed, maximum	241.6 km/h 150.1 mph
Antenna Dimensions, L x W x D	1831.0 mm x 225.0 mm x 164.0 mm 72.1 in x 8.9 in x 6.5 in
Net Weight	12.0 kg 26.5 lb
Model with factory installed AISG 2.0 RET LDX-9013DS-A1M	



Product Specifications

COMMScope®

LDX-9014DS-VTM

Andrew® Teletilt® Antenna, 790–960 MHz, 90° horizontal beamwidth, RET compatible



Electrical Specifications

Frequency Band, MHz	790–896	870–960
Gain by all Beam Tilts, average, dBi	15.6	15.8
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.3
Gain by Beam Tilt, average, dBi	0 ° 15.5 4 ° 15.6 8 ° 15.6	0 ° 15.7 4 ° 15.9 8 ° 15.8
Beamwidth, Horizontal, degrees	89	89
Beamwidth, Horizontal Tolerance, degrees	±1.8	±1.6
Beamwidth, Vertical, degrees	8.0	7.5
Beamwidth, Vertical Tolerance, degrees	±0.5	±0.3
Beam Tilt, degrees	0–8	0–8
USLS, dB	16	17
Front-to-Back Total Power at 180° ± 30°, dB	22	22
CPR at Boresight, dB	20	20
CPR at Sector, dB	14	14
Isolation, dB	30	30
VSWR Return Loss, dB	1.4 15.6	1.4 15.6
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150
Input Power per Port, maximum, watts	300	300
Polarization	±45°	±45°

*Values calculated using NGMN Alliance N-P-BASTA v9.6

Mechanical Specifications

Color Radome Material	Light gray Fiberglass, UV resistant
Connector Interface Location Quantity	7-16 DIN Female Bottom 2
Wind Loading, maximum	526.0 N @ 150 km/h 118.2 lbf @ 150 km/h
Wind Speed, maximum	241.0 km/h 149.8 mph
Antenna Dimensions, L x W x D	2435.0 mm x 225.0 mm x 164.0 mm 95.9 in x 8.9 in x 6.5 in
Net Weight	18.1 kg 39.9 lb
Model with factory installed AISG 2.0 RET LDX-9014DS-A1M	



Product Specifications

COMMScope®

LDXX-6515DS-VTM

Andrew® Quad Port Teletilt® Antenna, 790–960 MHz, 65° horizontal beamwidth, RET compatible



Electrical Specifications

Frequency Band, MHz	790–862	824–894	870–960
Gain, dBi	16.3	16.4	17.0
Beamwidth, Horizontal, degrees	67	65	63
Beamwidth, Vertical, degrees	10.3	10.2	9.6
Beam Tilt, degrees	0–10	0–10	0–10
USLS by Beam Tilt, dB	0 ° 6 ° 10 ° 17 21 19	0 ° 6 ° 10 ° 17 21 18	0 ° 6 ° 10 ° 16 20 20
Front-to-Back Ratio at 180°, dB	32	28	27
CPR at Boresight, dB	24	23	23
CPR at Sector, dB	14	13	10
Isolation, dB	30	30	30
VSWR Return Loss, dB	1.4 15.6	1.4 15.6	1.4 15.6
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150
Input Power per Port, maximum, watts	350	350	350
Polarization	±45°	±45°	±45°

Mechanical Specifications

Color | Radome Material Light gray | Fiberglass, UV resistant

Connector Interface | Location | Quantity 7-16 DIN Female | Bottom | 4

Wind Loading, maximum 1170.0 N @ 150 km/h
263.0 lbf @ 150 km/h

Wind Speed, maximum 241.0 km/h | 149.8 mph

Antenna Dimensions, L x W x D 2070.0 mm x 549.0 mm x 165.0 mm | 81.5 in x 21.6 in x 6.5 in

Net Weight 35.6 kg | 78.5 lb

Model with factory installed AISG 2.0 RET LDXX-6515DS-A2M



Product Specifications

COMMScope®

LDXX-6516DS-VTM

Andrew® Quad Port Teletilt® Antenna, 790–960 MHz, 65° horizontal beamwidth, RET compatible

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Electrical Specifications

Frequency Band, MHz	790–862	824–894	870–960
Gain by all Beam Tilts, average, dBi	16.8	17.1	17.3
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.2	±0.4
Gain by Beam Tilt, average, dBi	0 ° 16.7 4 ° 16.8 8 ° 16.7	0 ° 17.0 4 ° 17.2 8 ° 17.1	0 ° 17.2 4 ° 17.3 8 ° 17.3
Beamwidth, Horizontal, degrees	70	67	64
Beamwidth, Horizontal Tolerance, degrees	±3.5	±3.1	±4
Beamwidth, Vertical, degrees	7.9	7.5	7.1
Beamwidth, Vertical Tolerance, degrees	±0.4	±0.4	±0.3
Beam Tilt, degrees	0–8	0–8	0–8
USLS, typical, dB	16	17	17
Front-to-Back Total Power at 180° ± 30°, dB	26	26	24
CPR at Boresight, dB	24	24	25
CPR at Sector, dB	16	16	12
Isolation, dB	30	30	30
Isolation, Cross Polarization, port to port, dB	30	30	30
VSWR Return Loss, dB	1.4 15.6	1.4 15.6	1.4 15.6
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150
Input Power per Port, maximum, watts	350	350	350
Polarization	±45°	±45°	±45°

*Values calculated using NGMN Alliance N-P-BASTA v9.6

Mechanical Specifications

Color Radome Material	Light gray Fiberglass, UV resistant
Connector Interface Location Quantity	7-16 DIN Female Bottom 4
Wind Loading, maximum	1436.0 N @ 150 km/h 322.8 lbf @ 150 km/h
Wind Speed, maximum	241.0 km/h 149.8 mph
Antenna Dimensions, L x W x D	2567.0 mm x 549.0 mm x 165.0 mm 101.1 in x 21.6 in x 6.5 in
Net Weight	32.1 kg 70.8 lb
Model with factory installed AISG 2.0 RET LDXX-6516DS-A2M	



Product Specifications

COMMScope®

LDXX-9013DS-VTM

Andrew® Quad Port Teletilt® Antenna, 790–960 MHz, 90° horizontal beamwidth, RET compatible



Electrical Specifications

Frequency Band, MHz	790–862	824–894	870–960
Gain, dBi	14.7	14.7	15.1
Beamwidth, Horizontal, degrees	90	88	87
Beamwidth, Vertical, degrees	11.4	11.0	10.6
Beam Tilt, degrees	0–10	0–10	0–10
USLS by Beam Tilt, dB	0 ° 6 ° 10 ° 19 15 15	0 ° 6 ° 10 ° 17 15 15	0 ° 6 ° 10 ° 16 17 15
Front-to-Back Ratio at 180°, dB	26	27	27
CPR at Boresight, dB	18	18	19
CPR at Sector, dB	10	11	11
Isolation, dB	30	30	30
VSWR Return Loss, dB	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150
Input Power per Port, maximum, watts	300	300	300
Polarization	±45°	±45°	±45°

Mechanical Specifications

Color | Radome Material Light gray | Fiberglass, UV resistant

Connector Interface | Location | Quantity 7-16 DIN Female | Bottom | 4

Wind Loading, maximum 1188.1 N @ 150 km/h
267.1 lbf @ 150 km/h

Wind Speed, maximum 241.0 km/h | 149.8 mph

Antenna Dimensions, L x W x D 1830.0 mm x 549.0 mm x 165.0 mm | 72.0 in x 21.6 in x 6.5 in

Net Weight 30.0 kg | 66.1 lb

Model with factory installed AISG 2.0 RET LDXX-9013DS-A2M



High Band Base Station Antenna Selection Guide

Single Band Ultra-Wideband														
Model	Frequency (MHz)	Polarization	Tilt (Degree)	Gain (dBi)	HBW (Degree)	VBW (Degree)	USLS (dB)	F/B (dB)	Isolation (dB)	VSWR	Max. Input Power (W)	Weight (kg/lb)	Length (mm/in)	Width (mm/in)
65° Horizontal Beamwidth Models														
HWX-6516DS1-VTM	1710–2690	±45°	0–10	18.5	61	5.0	21	28	30	1.5:1	300	6.0 / 13.2	1390 / 54.7	170 / 6.7

Single Band Quad Ultra-Wideband														
Model	Frequency (MHz)	Polarization	Tilt (Degree)	Gain (dBi)	HBW (Degree)	VBW (Degree)	USLS (dB)	F/B (dB)	Isolation (dB)	VSWR	Max. Input Power (W)	Weight (kg/lb)	Length (mm/in)	Width (mm/in)
65° Horizontal Beamwidth Models														
HWXX-6516DS1-VTM	2x 1710–2690	±45°	0–10	18.3	63	5.3	20	27	30	1.5:1	350	10.2 / 22.5	1390 / 54.7	305 / 12.0
VVPX303F1	2x 1710–2690	±45°	0	13.2	62	19.0	17	25	30	1.5:1	250	5.0 / 11.0	420 / 16.5	290 / 11.4
VVPX306M-V5	2x 1710–2690	±45°	0–10	16.3	61	10.1	18	29	30	1.5:1	250	8.5 / 18.7	875 / 34.4	290 / 11.4

Single Band Hex Port Ultra-Wideband														
Model	Frequency (MHz)	Polarization	Tilt (Degree)	Gain (dBi)	HBW (Degree)	VBW (Degree)	USLS (dB)	F/B (dB)	Isolation (dB)	VSWR	Max. Input Power (W)	Weight (kg/lb)	Length (mm/in)	Width (mm/in)
65° Horizontal Beamwidth Models														
HWXXX-6516DS-VTM	3x 1710–2690	±45°	0–10	18.3	62	5.1	21	26	30	1.5:1	350	19.5 / 43.0	1390 / 54.7	504 / 19.8

Note: Specifications are subject to change without notice. See www.commscope.com for the most current information.

Product Specifications

HWX-6516DS1-VTM

Andrew® Teletilt® Antenna, 1710–2690 MHz, 65° horizontal beamwidth, RET compatible



Electrical Specifications

Frequency Band, MHz	1710–1880	1850–1990	1920–2170	2300–2500	2500–2690
Gain by all Beam Tilts, average, dBi	17.1	17.2	17.7	18.3	18.5
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.3	±0.7	±0.2	±0.4
Gain by Beam Tilt, average, dBi	0 ° 17.1	0 ° 17.2	0 ° 17.7	0 ° 18.1	0 ° 18.6
	5 ° 17.2	5 ° 17.3	5 ° 17.8	5 ° 18.4	5 ° 18.7
	10 ° 16.9	10 ° 16.9	10 ° 17.4	10 ° 18.1	10 ° 18.1
Beamwidth, Horizontal, degrees	68	66	65	61	60
Beamwidth, Horizontal Tolerance, degrees	±2.4	±2.3	±1.9	±2.2	±1.9
Beamwidth, Vertical, degrees	6.8	6.4	6.1	5.4	5.0
Beamwidth, Vertical Tolerance, degrees	±0.3	±0.2	±0.4	±0.3	±0.3
Beam Tilt, degrees	0–10	0–10	0–10	0–10	0–10
USLS, dB	18	17	17	21	20
Front-to-Back Total Power at 180° ± 30°, dB	27	27	27	28	26
CPR at Boresight, dB	17	19	20	21	17
CPR at Sector, dB	14	12	11	10	9
Isolation, dB	30	30	30	30	30
VSWR Return Loss, dB	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	350	350	350	300	300
Polarization	±45°	±45°	±45°	±45°	±45°

*Values calculated using NGMN Alliance N-P-BASTA v9.6

Mechanical Specifications

Color Radome Material	Light gray PVC, UV resistant
Connector Interface Location Quantity	7-16 DIN Female Bottom 2
Wind Loading, maximum	273.0 N @ 150 km/h 61.4 lbf @ 150 km/h
Wind Speed, maximum	241.0 km/h 149.8 mph
Antenna Dimensions, L x W x D	1390.0 mm x 170.0 mm x 105.0 mm 54.7 in x 6.7 in x 4.1 in
Net Weight	6.0 kg 13.2 lb
Model with factory installed AISG 2.0 RET HWX-6516DS1-A1M	



Product Specifications

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HWXX-6516DS1-VTM

Andrew® Quad Port Teletilt® Antenna, 1710–2690 MHz, 65° horizontal beamwidth RET compatible

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Electrical Specifications

Frequency Band, MHz	1710–1880	1850–1990	1920–2170	2300–2500	2500–2690
Gain by all Beam Tilts, average, dBi	17.2	17.4	17.8	18.0	18.3
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.4	±0.5	±0.3	±0.3
Gain by Beam Tilt, average, dBi	0 ° 17.0	0 ° 17.3	0 ° 17.8	0 ° 17.8	0 ° 18.3
	5 ° 17.3	5 ° 17.4	5 ° 17.9	5 ° 18.1	5 ° 18.4
	10 ° 17.1	10 ° 17.2	10 ° 17.6	10 ° 18.0	10 ° 17.9
Beamwidth, Horizontal, degrees	66	65	65	63	62
Beamwidth, Horizontal Tolerance, degrees	±2.7	±2.7	±2.1	±2.1	±3
Beamwidth, Vertical, degrees	6.7	6.4	6.1	5.3	5.1
Beamwidth, Vertical Tolerance, degrees	±0.3	±0.2	±0.4	±0.2	±0.2
Beam Tilt, degrees	0–10	0–10	0–10	0–10	0–10
USLS, dB	16	16	17	20	21
Front-to-Back Total Power at 180° ± 30°, dB	25	26	27	27	26
CPR at Boresight, dB	16	17	16	19	18
CPR at Sector, dB	15	14	14	9	10
Isolation, dB	30	30	30	30	30
Isolation, Intersystem, dB	30	30	30	30	30
VSWR Return Loss, dB	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	350	350	350	350	350
Polarization	±45°	±45°	±45°	±45°	±45°

*Values calculated using NGMN Alliance N-P-BASTA v9.6

Mechanical Specifications

Color Radome Material	Light gray PVC, UV resistant
Connector Interface Location Quantity	7-16 DIN Female Bottom 4
Wind Loading, maximum	512.0 N @ 150 km/h 115.1 lbf @ 150 km/h
Wind Speed, maximum	241.0 km/h 149.8 mph
Antenna Dimensions, L x W x D	1390.0 mm x 305.0 mm x 118.0 mm 54.7 in x 12.0 in x 4.6 in
Net Weight	10.2 kg 22.5 lb
Model with factory installed AISG 2.0 RET HWXX-6516DS1-A2M	



Product Specifications

COMMScope®

WPX303F1

Argus® Quad Antenna, 2 x 1710-2690 MHz, fixed electrical tilt



Electrical Specifications

Frequency Band, MHz	1710-1920	1920-2170	2300-2690
Gain, dBi	11.8	12.5	13.2
Beamwidth, Horizontal, degrees	68	66	62
Beamwidth, Vertical, degrees	27.0	23.0	19.0
Beam Tilt, degrees	0	0	0
USLS, dB	17	17	17
Front-to-Back Ratio at 180°, dB	25	25	25
Isolation, dB	30	30	30
VSWR Return Loss, dB	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150
Input Power per Port, maximum, watts	250	250	250
Polarization	±45°	±45°	±45°

Mechanical Specifications

Connector Interface | Location | Quantity 7-16 DIN Female | Bottom | 4

Wind Loading, maximum
180.0 N @ 160 km/h
40.5 lbf @ 160 km/h

Wind Speed, maximum
200.0 km/h | 124.3 mph

Antenna Dimensions, L x W x D
420.0 mm x 290.0 mm x 103.0 mm | 16.5 in x 11.4 in x 4.1 in

Net Weight
5.0 kg | 11.0 lb



Product Specifications

COMMScope®

WPX306M-V5

Argus® Quad Antenna, 2 x 1710–2690 MHz, 65° horizontal beamwidth, variable electrical tilt



Electrical Specifications

Frequency Band, MHz	1710–1920	1920–2170	2300–2690
Gain by all Beam Tilts, average, dBi	15.0	15.6	16.3
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.3	±0.5
Gain by Beam Tilt, average, dBi	0 ° 14.9 5 ° 14.9 10 ° 15.0	0 ° 15.6 5 ° 15.6 10 ° 15.6	0 ° 16.4 5 ° 16.4 10 ° 16.0
Beamwidth, Horizontal, degrees	65	64	61
Beamwidth, Horizontal Tolerance, degrees	±3.4	±3.5	±5.4
Beamwidth, Vertical, degrees	13.9	12.5	10.1
Beamwidth, Vertical Tolerance, degrees	±0.9	±0.8	±0.8
Beam Tilt, degrees	0–10	0–10	0–10
USLS, dB	18	18	18
Front-to-Back Total Power at 180° ± 30°, dB	24	26	29
CPR at Boresight, dB	11	18	21
CPR at Sector, dB	18	12	12
Isolation, dB	30	30	30
Isolation, Intersystem, dB	30	30	30
VSWR Return Loss, dB	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150
Input Power per Port, maximum, watts	250	250	250
Polarization	±45°	±45°	±45°

**Values calculated using NGMN Alliance N-P-BASTA v9.6*

Mechanical Specifications

Connector Interface Location Quantity	7-16 DIN Female Bottom 4
Wind Loading, maximum	326.0 N @ 150 km/h 73.3 lbf @ 150 km/h
Wind Speed, maximum	250.0 km/h 155.3 mph
Antenna Dimensions, L x W x D	875.0 mm x 290.0 mm x 103.0 mm 34.4 in x 11.4 in x 4.1 in
Net Weight	8.5 kg 18.7 lb

Product Specifications

HWXXX-6516DS-VTM

Andrew® Hex Port Teletilt® Antenna, 1710–2690 MHz, 65° horizontal beamwidth, RET compatible

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Electrical Specifications

Frequency Band, MHz	1710–1880	1850–1990	1920–2180	2300–2500	2500–2690
Gain by all Beam Tilts, average, dBi	17.2	17.3	17.6	17.9	17.9
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.4	±0.5	±0.3	±0.5
Gain by Beam Tilt, average, dBi	0 ° 17.0	0 ° 17.1	0 ° 17.5	0 ° 17.7	0 ° 17.7
	5 ° 17.2	5 ° 17.3	5 ° 17.7	5 ° 17.9	5 ° 18.0
	10 ° 17.2	10 ° 17.3	10 ° 17.7	10 ° 17.9	10 ° 17.8
Beamwidth, Horizontal, degrees	62	63	64	62	61
Beamwidth, Horizontal Tolerance, degrees	±3.6	±2.9	±4.2	±3.9	±5.3
Beamwidth, Vertical, degrees	7.3	6.8	6.4	5.3	5.0
Beamwidth, Vertical Tolerance, degrees	±0.4	±0.3	±0.5	±0.2	±0.3
Beam Tilt, degrees	0–10	0–10	0–10	0–10	0–10
USLS, dB	15	16	17	15	14
Front-to-Back Total Power at 180° ± 30°, dB	24	24	23	23	20
CPR at Boresight, dB	23	21	19	19	19
CPR at Sector, dB	13	10	9	8	14
Isolation, dB	30	30	30	30	30
VSWR Return Loss, dB	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	350	350	350	300	300
Polarization	±45°	±45°	±45°	±45°	±45°

*Values calculated using NGMN Alliance N-P-BASTA v9.6

Mechanical Specifications

Color Radome Material	Light gray Fiberglass, UV resistant
Connector Interface Location Quantity	7-16 DIN Female Bottom 6
Wind Loading, maximum	715.0 N @ 150 km/h 160.7 lbf @ 150 km/h
Wind Speed, maximum	241.0 km/h 149.8 mph
Antenna Dimensions, L x W x D	1390.0 mm x 504.0 mm x 118.0 mm 54.7 in x 19.8 in x 4.6 in
Net Weight	19.5 kg 43.0 lb
Model with factory installed AISG 2.0 RET HWXXX-6516DS-A3M	



Multi-Band Base Station Antenna Selection Guide

Dual Band LTE800														
Model	Frequency (MHz)	Polarization	Tilt (Degree)	Gain (dBi)	HBW (Degree)	VBW (Degree)	USLS (dB)	F/B (dB)	Isolation (dB)	VSWR	Max. Input Power (W)	Weight (kg/lb)	Length (mm/in)	Width (mm/in)
65° Horizontal Beamwidth Models														
DBXDH-6565A-VTM	790–960	±45°	0–16	14.0	67	14.3	16	21	30	1.5:1	300	15.3 / 33.7	1293 / 50.9	301 / 11.9
	1710–2180	±45°	2–12	16.9	59	6.4	15	26	30	1.5:1	250			
DBXDH-6565B-VTM	790–960	±45°	2–12	16.7	65	9.2	15	29	30	1.5:1	500	22.8 / 50.3	1998 / 78.7	301 / 11.9
	1710–2180	±45°	1–8	18.7	65	5.2	15	33	30	1.5:1	400			
DBXDH-6565EC-VTM	790–960	±45°	1–9	16.7	66	7.1	16	23	30	1.5:1	350	22.5 / 49.6	2578 / 101.5	301 / 11.9
	1710–2180	±45°	0–10	17.1	60	6.2	17	24	30	1.5:1	350			
85° Horizontal Beamwidth Models														
DBXDH-8585A-VTM	790–960	±45°	0–15	14.0	86	15.3	18	25	30	1.5:1	500	14.5 / 32.0	1298 / 51.1	301 / 11.9
	1710–2180	±45°	0–10	16.1	84	6.4	15	26	30	1.5:1	300			
DBXDH-8585B-VTM	790–960	±45°	0–10	14.9	85	10.5	16	24	30	1.4:1	400	21.0 / 46.2	1847 / 72.7	301 / 11.9
	1710–2180	±45°	0–6	17.2	84	5.2	17	29	30	1.5:1	300			
DBXRH-8585C-VTM	698–960	±45°	0–11	16.1	85	7.3	15	28	30	1.5:1	400	21.9 / 48.3	2449 / 96.4	301 / 11.9
	1710–2180	±45°	0–6	17.1	85	4.2	17	29	30	1.5:1	300			

Dual Band Ultra-Wideband														
Model	Frequency (MHz)	Polarization	Tilt (Degree)	Gain (dBi)	HBW (Degree)	VBW (Degree)	USLS (dB)	F/B (dB)	Isolation (dB)	VSWR	Max. Input Power (W)	Weight (kg/lb)	Length (mm/in)	Width (mm/in)
65° Horizontal Beamwidth Models														
CV65BSX-M	790–960	±45°	0–10	15.4	62	9.7	16	25	28	1.5:1	350	17.9 / 39.5	1970 / 77.6	301 / 11.9
	1710–2690	±45°	2–12	18.0	58	4.1	16	24	28	1.5:1	300			

Tri-Band LTE800														
Model	Frequency (MHz)	Polarization	Tilt (Degree)	Gain (dBi)	HBW (Degree)	VBW (Degree)	USLS (dB)	F/B (dB)	Isolation (dB)	VSWR	Max. Input Power (W)	Weight (kg/lb)	Length (mm/in)	Width (mm/in)
65° Horizontal Beamwidth Models														
MBDHH-65C-VTM	790–960	±45°	1–9	17.0	67	7.1	16	32	30	1.5:1	300	23.5 / 51.8	2578 / 101.5	301 / 11.9
	1710–2180	±45°	0–10	17.5	59	6.7	14	29	30	1.5:1	250			

Tri-Band Ultra-Wideband														
Model	Frequency (MHz)	Polarization	Tilt (Degree)	Gain (dBi)	HBW (Degree)	VBW (Degree)	USLS (dB)	F/B (dB)	Isolation (dB)	VSWR	Max. Input Power (W)	Weight (kg/lb)	Length (mm/in)	Width (mm/in)
65° Horizontal Beamwidth Models														
CVV65BSX-M	790–960	±45°	0–10	15.5	61	9.6	16	27	28	1.5:1	350	18.8 / 41.4	1970 / 77.6	301 / 11.9
	2x 1710–2690	±45°	2–12	17.9	60	4.1	16	24	28	1.5:1	300			
CVV65CSX-M	790–960	±45°	0–10	16.5	61	7.6	16	27	28	1.5:1	350	22.2 / 48.9	2449 / 96.4	301 / 11.9
	2x 1710–2690	±45°	2–12	17.9	60	4.1	18	24	28	1.5:1	300			
CVVPX303F1	790–960	±45°	0	12.5	62	25.0	15	25	20	1.43:1	300	11 / 24.3	860 / 33.9	353 / 13.9
	2x 1710–2690	±45°	0	12.8	62	18.0	15	25	25	1.5:1	250			
CVVPX304R3	790–960	±45°	0–10	13.4	63	19.5	17	25	25	1.43:1	300	14.5 / 32	1093 / 43	353 / 13.9
	2x 1710–2690	±45°	0–10	14.2	61	14.5	15	25	25	1.5:1	250			
CVVPX306R3	790–960	±45°	0–10	14.8	62	13.5	18	25	25	1.43:1	300	21.0 / 46.3	1560 / 61.4	353 / 13.9
	2x 1710–2690	±45°	0–10	16.2	60	9.5	18	25	25	1.5:1	250			
CVVPX308.10R3	790–960	±45°	0–10	16.0	60	10.0	18	25	25	1.43:1	300	26.0 / 57.3	2025 / 79.7	354 / 13.9
	2x 1710–2690	±45°	0–10	18.2	60	5.7	18	25	25	1.5:1	250			
CVVPX310R1	790–960	±45°	0–10	16.8	62	8.0	18	25	25	1.43:1	300	31.0 / 68.3	2494 / 98.2	353 / 13.9
	2x 1710–2690	±45°	0–10	18.0	62	5.8	18	25	25	1.5:1	250			
RVVPX305.10R3	698–960	±45°	0–10	14.1	63	16.6	18	23	25	1.43:1	300	20 / 44.1	1380 / 54.3	353 / 13.9
	2x 1710–2690	±45°	0–10	17.4	63	6.0	18	26	25	1.5:1	250			
RVVPX306.11R3	698–960	±45°	0–10	14.8	63	13.4	20	24	25	1.43:1	300	23 / 50.7	1600 / 63	353 / 13.9
	2x 1710–2690	±45°	0–10	17.7	61	5.4	20	25	25	1.43:1	250			
RVVPX308.14R3	698–960	±45°	0–10	15.7	63	10.1	20	24	25	1.43:1	300	28 / 61.7	2065 / 81.3	353 / 13.9
	2x 1710–2690	±45°	0–10	18.6	63	4.2	19	25	25	1.5:1	250			
RVVPX310R-V	698–960	±45°	0–10	14.4	61	8.0	18	25	25	1.43:1	300	31 / 68.3	2490 / 98	296 / 11.7
	2x 1710–2690	±45°	0–10	18.0	60	5.8	18	25	25	1.5:1	250			

Multi-Band Base Station Antenna

Selection Guide

Quad Band Ultra-Wideband														
Model	Frequency (MHz)	Polarization	Tilt (Degree)	Gain (dBi)	HBW (Degree)	VBW (Degree)	USLS (dB)	F/B (dB)	Isolation (dB)	VSWR	Max. Input Power (W)	Weight (kg/lb)	Length (mm/in)	Width (mm/in)
65° Horizontal Beamwidth Models														
CV3PX308R1	790–960	±45°	0–10	15.6	64	10.5	23	26	25	1.43:1	300	27.1 / 59.7	2067 / 81.4	353 / 13.9
	3x 1710–2690	±45°	0–10	16.2	66	7.1	19	25	25	1.5:1	250			
CV3PX310R1	790–960	±45°	0–10	16.8	62	8.0	18	25	25	1.43:1	300	36.0 / 79.4	2533 / 99.7	353 / 13.9
	3x 1710–2690	±45°	0–10	18.0	62	5.8	18	25	25	1.5:1	250			

Multi-Port Ultra-Wideband														
Model	Frequency (MHz)	Polarization	Tilt (Degree)	Gain (dBi)	HBW (Degree)	VBW (Degree)	USLS (dB)	F/B (dB)	Isolation (dB)	VSWR	Max. Input Power (W)	Weight (kg/lb)	Length (mm/in)	Width (mm/in)
65° Horizontal Beamwidth Models														
RV4PX310B1	698–960	±45°	0–10	16.5	62	8.0	18	25	25	1.43:1	300	37.0 / 81.6	2533 / 99.7	353 / 13.9
	4x 1710–2690	±45°	0–10	18.0	62	5.8	18	25	25	1.5:1	250			
RV4PX310R	698–960	±45°	0–10	16.5	62	8.0	18	25	25	1.43:1	300	37.0 / 81.6	2533 / 99.7	353 / 13.9
	4x 1710–2690	±45°	0–10	18.0	62	5.8	18	25	25	1.5:1	250			

Note: Specifications are subject to change without notice. See www.commscope.com for the most current information.

Product Specifications

DBXDH-6565A-VTM

Andrew® Dual Band Antenna, 790–960 MHz and 1710–2180 MHz, 65° horizontal beamwidth, RET compatible

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Electrical Specifications

Frequency Band, MHz	790–896	870–960	1710–1880	1850–1990	1920–2180
Gain by all Beam Tilts, average, dBi	13.8	14.0	16.7	16.8	16.9
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.4	±0.4	±0.4	±0.5
Gain by Beam Tilt, average, dBi	0 ° 13.9	0 ° 14.2	2 ° 16.8	2 ° 16.9	2 ° 16.9
	8 ° 13.9	8 ° 14.1	7 ° 16.9	7 ° 17.0	7 ° 17.1
	16 ° 13.4	16 ° 13.6	12 ° 16.5	12 ° 16.4	12 ° 16.5
Beamwidth, Horizontal, degrees	69	67	63	59	59
Beamwidth, Horizontal Tolerance, degrees	±3.2	±3.9	±4.4	±2.4	±2.2
Beamwidth, Vertical, degrees	15.2	14.3	7.1	6.7	6.4
Beamwidth, Vertical Tolerance, degrees	±1	±0.7	±0.4	±0.3	±0.5
Beam Tilt, degrees	0–16	0–16	2–12	2–12	2–12
USLS, dB	15	16	14	15	16
Front-to-Back Total Power at 180° ± 30°, dB	20	21	26	26	26
CPR at Boresight, dB	25	23	22	21	20
CPR at Sector, dB	12	8	9	9	10
Isolation, dB	30	30	30	30	30
Isolation, Intersystem, dB	30	30	30	30	30
VSWR Return Loss, dB	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	300	300	250	250	250
Polarization	±45°	±45°	±45°	±45°	±45°

*Values calculated using NGMN Alliance N-P-BASTA v9.6

Mechanical Specifications

Color Radome Material	Light gray Fiberglass, UV resistant
Connector Interface Location Quantity	7-16 DIN Female Bottom 4
Wind Loading, maximum	403.0 N @ 150 km/h 90.6 lbf @ 150 km/h
Wind Speed, maximum	241.0 km/h 149.8 mph
Antenna Dimensions, L x W x D	1293.0 mm x 301.0 mm x 181.0 mm 50.9 in x 11.9 in x 7.1 in
Net Weight	15.3 kg 33.7 lb
Model with factory installed AISG 2.0 RET DBXDH-6565A-A2M	



Product Specifications

DBXDH-6565B-VTM

Andrew® Dual Band Antenna, 790–960 MHz and 1710–2180 MHz, 65° horizontal beamwidth, RET compatible



Electrical Specifications

Frequency Band, MHz	790–896	870–960	1710–1880	1850–1990	1920–2180
Gain, dBi	15.8	16.7	18.7	18.6	18.3
Beamwidth, Horizontal, degrees	66	65	65	63	63
Beamwidth, Vertical, degrees	10.0	9.2	5.2	5.0	4.8
Beam Tilt, degrees	2–12	2–12	1–8	1–8	1–8
USLS, typical, dB	15	15	15	15	15
Front-to-Back Ratio at 180°, dB	28	29	33	32	31
Isolation, dB	30	30	30	30	30
Isolation, Intersystem, dB	37	35	40	40	40
VSWR Return Loss, dB	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	500	500	400	400	400
Polarization	±45°	±45°	±45°	±45°	±45°

Mechanical Specifications

Color | Radome Material Light gray | Fiberglass, UV resistant

Connector Interface | Location | Quantity 7-16 DIN Female | Bottom | 4

Wind Loading, maximum 681.0 N @ 150 km/h
153.1 lbf @ 150 km/h

Wind Speed, maximum 241.0 km/h | 149.8 mph

Antenna Dimensions, L x W x D 1998.0 mm x 301.0 mm x 181.0 mm | 78.7 in x 11.9 in x 7.1 in

Net Weight 22.8 kg | 50.3 lb

Model with factory installed AISG 2.0 RET DBXDH-6565B-A2M



Product Specifications

COMMScope®

DBXDH-6565EC-VTM

Andrew® Dual Band Antenna, 790–960 MHz and 1710–2180 MHz, 65° horizontal beamwidth, RET compatible

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Electrical Specifications

Frequency Band, MHz	790–896	870–960	1710–1880	1850–1990	1920–2180
Gain by all Beam Tilts, average, dBi	16.4	16.7	16.9	17.0	17.1
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.3	±0.4	±0.4	±0.4
Gain by Beam Tilt, average, dBi	1 ° 16.5	1 ° 16.6	0 ° 16.9	0 ° 16.8	0 ° 16.9
	5 ° 16.5	5 ° 16.8	5 ° 17.1	5 ° 17.1	5 ° 17.4
	9 ° 16.3	9 ° 16.7	10 ° 16.6	10 ° 16.8	10 ° 17.1
Beamwidth, Horizontal, degrees	68	66	61	61	60
Beamwidth, Horizontal Tolerance, degrees	±1.8	±3.3	±3.7	±0.7	±3.8
Beamwidth, Vertical, degrees	7.6	7.1	6.9	6.6	6.2
Beamwidth, Vertical Tolerance, degrees	±0.3	±0.2	±0.4	±0.3	±0.5
Beam Tilt, degrees	1–9	1–9	0–10	0–10	0–10
USLS, dB	15	16	17	18	17
Front-to-Back Total Power at 180° ± 30°, dB	23	23	27	25	24
CPR at Boresight, dB	25	25	18	19	19
CPR at Sector, dB	16	8	11	11	10
Isolation, dB	30	30	30	30	30
Isolation, Intersystem, dB	30	30	30	30	30
VSWR Return Loss, dB	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	350	350	350	350	350
Polarization	±45°	±45°	±45°	±45°	±45°

*Values calculated using NGMN Alliance N-P-BASTA v9.6

Mechanical Specifications

Color Radome Material	Light gray Fiberglass, UV resistant
Connector Interface Location Quantity	7-16 DIN Female Bottom 4
Wind Loading, maximum	930.0 N @ 150 km/h 209.1 lbf @ 150 km/h
Wind Speed, maximum	241.0 km/h 149.8 mph
Antenna Dimensions, L x W x D	2578.0 mm x 301.0 mm x 181.0 mm 101.5 in x 11.9 in x 7.1 in
Net Weight	22.5 kg 49.6 lb
Model with factory installed AISG 2.0 RET DBXDH-6565EC-A2M	



Product Specifications

DBXDH-8585A-VTM

Andrew® Dual Band Antenna, 790–960 MHz and 1710–2180 MHz, 85° horizontal beamwidth, RET compatible



Electrical Specifications

Frequency Band, MHz	790–896	870–960	1710–1880	1850–1990	1920–2180
Gain, dBi	13.2	14.0	15.9	16.0	16.1
Beamwidth, Horizontal, degrees	87	86	85	85	84
Beamwidth, Vertical, degrees	16.5	15.3	7.3	6.9	6.4
Beam Tilt, degrees	0–15	0–15	0–10	0–10	0–10
USLS, typical, dB	17	18	15	15	15
Front-to-Back Ratio at 180°, dB	22	25	28	26	26
Isolation, dB	30	30	30	30	30
Isolation, Intersystem, dB	40	40	35	35	35
VSWR Return Loss, dB	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	500	500	300	300	300
Polarization	±45°	±45°	±45°	±45°	±45°

Mechanical Specifications

Color | Radome Material Light gray | Fiberglass, UV resistant

Connector Interface | Location | Quantity 7-16 DIN Female | Bottom | 4

Wind Loading, maximum 402.7 N @ 150 km/h
90.5 lbf @ 150 km/h

Wind Speed, maximum 241.0 km/h | 149.8 mph

Antenna Dimensions, L x W x D 1298.0 mm x 301.0 mm x 181.0 mm | 51.1 in x 11.9 in x 7.1 in

Net Weight 14.5 kg | 32.0 lb

Model with factory installed AISG 2.0 RET DBXDH-8585A-A2M



Product Specifications

COMMScope®

DBXDH-8585B-VTM

Andrew® Dual Band Antenna, 790–960 MHz and 1710–2180 MHz, 85° horizontal beamwidth, RET compatible



Electrical Specifications

Frequency Band, MHz	790–896	870–960	1710–1880	1850–1990	1920–2180
Gain, dBi	14.3	14.9	17.2	17.1	17.1
Beamwidth, Horizontal, degrees	85	85	84	85	85
Beamwidth, Vertical, degrees	11.2	10.5	5.2	4.8	4.4
Beam Tilt, degrees	0–10	0–10	0–6	0–6	0–6
USLS, typical, dB	16	16	17	18	18
Front-to-Back Ratio at 180°, dB	22	24	29	29	29
Isolation, dB	30	30	30	30	30
Isolation, Intersystem, dB	30	30	30	30	30
VSWR Return Loss, dB	1.4 15.6	1.4 15.6	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	400	400	300	300	300
Polarization	±45°	±45°	±45°	±45°	±45°

Mechanical Specifications

Color | Radome Material Light gray | Fiberglass, UV resistant

Connector Interface | Location | Quantity 7-16 DIN Female | Bottom | 4

Wind Loading, maximum 618.6 N @ 150 km/h
139.1 lbf @ 150 km/h

Wind Speed, maximum 241.0 km/h | 149.8 mph

Antenna Dimensions, L x W x D 1847.0 mm x 301.0 mm x 181.0 mm | 72.7 in x 11.9 in x 7.1 in

Net Weight 21.0 kg | 46.2 lb

Model with factory installed AISG 2.0 RET DBXDH-8585B-A2M



Product Specifications

COMMScope®

DBXRH-8585C-VTM

Andrew® Dual Band Teletilt® Antenna, 698–960 MHz and 1710–2180 MHz, 85° horizontal beamwidth, RET compatible

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Electrical Specifications

Frequency Band, MHz	698–806	806–896	870–960	1710–1880	1850–1990	1920–2180
Gain, dBi	15.1	15.0	16.2	17.0	16.7	17.1
Beamwidth, Horizontal, degrees	88	85	85	81	84	85
Beamwidth, Vertical, degrees	8.4	7.6	7.3	4.7	4.4	4.2
Beam Tilt, degrees	0–11	0–11	0–11	0–6	0–6	0–6
USLS, typical, dB	15	15	15	16	17	17
Front-to-Back Ratio at 180°, dB	30	28	28	29	29	29
Front-to-Back Total Power at 180° ± 20°, dB	16	19	20	23	22	22
CPR at Boresight, dB	25	22	21	20	20	20
CPR at Sector, dB	13	11	10	8	9	10
Isolation, dB	30	30	30	30	30	30
Isolation, Intersystem, dB	30	30	30	30	30	30
VSWR Return Loss, dB	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	400	400	400	300	300	300
Polarization	±45°	±45°	±45°	±45°	±45°	±45°

Mechanical Specifications

Color | Radome Material Light gray | Fiberglass, UV resistant

Connector Interface | Location | Quantity 7-16 DIN Female | Bottom | 4

Wind Loading, maximum 879.0 N @ 150 km/h
197.6 lbf @ 150 km/h

Wind Speed, maximum 241.0 km/h | 149.8 mph

Antenna Dimensions, L x W x D 2449.0 mm x 301.0 mm x 181.0 mm | 96.4 in x 11.9 in x 7.1 in

Net Weight 21.9 kg | 48.3 lb

Model with factory installed AISG 2.0 RET DBXRH-8585C-A2M



Product Specifications

CV65BSX-M

Andrew® Dual Band Teletilt® Antenna, 790–960 MHz and 1710–2690 MHz, 65° horizontal beamwidth, RET compatible



Electrical Specifications

Frequency Band, MHz	790–896	870–960	1710–1880	1850–1990	1920–2180	2300–2500	2500–2690
Gain by all Beam Tilts, average, dBi	15.3	15.4	17.2	17.5	17.6	17.7	18.0
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.4	±0.3	±0.3	±0.5	±0.6	±0.4
Gain by Beam Tilt, average, dBi	0 ° 15.4	0 ° 15.4	2 ° 17.1	2 ° 17.4	2 ° 17.5	2 ° 17.6	2 ° 17.8
	5 ° 15.4	5 ° 15.5	7 ° 17.3	7 ° 17.6	7 ° 17.7	7 ° 17.9	7 ° 18.1
	10 ° 15.1	10 ° 15.1	12 ° 17.2	12 ° 17.4	12 ° 17.6	12 ° 17.5	12 ° 17.7
Beamwidth, Horizontal, degrees	63	62	71	66	67	57	58
Beamwidth, Horizontal Tolerance, degrees	±2.7	±1.9	±4.6	±2.4	±5	±3.5	±4.6
Beamwidth, Vertical, degrees	10.5	9.7	5.6	5.3	5.0	4.3	4.1
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.6	±0.3	±0.3	±0.3	±0.2	±0.2
Beam Tilt, degrees	0–10	0–10	2–12	2–12	2–12	2–12	2–12
USLS, dB	16	16	16	17	17	16	18
Front-to-Back Total Power at 180° ± 30°, dB	25	25	26	24	22	22	24
CPR at Sector, dB	11	11	12	9	9	5	7
Isolation, dB	28	28	28	28	28	28	28
Isolation, Intersystem, dB	30	30	30	30	30	30	30
VSWR Return Loss, dB	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	350	350	350	350	350	300	300
Polarization	±45°	±45°	±45°	±45°	±45°	±45°	±45°

*Values calculated using NGMN Alliance N-P-BASTA v9.6

Mechanical Specifications

Color Radome Material	Light gray Fiberglass, UV resistant
Connector Interface Location Quantity	7-16 DIN Female Bottom 4
Wind Loading, maximum	669.0 N @ 150 km/h 150.4 lbf @ 150 km/h
Wind Speed, maximum	241.4 km/h 150.0 mph
Antenna Dimensions, L x W x D	1970.0 mm x 301.0 mm x 181.0 mm 77.6 in x 11.9 in x 7.1 in
Net Weight	17.9 kg 39.5 lb
Model with factory installed AISG 2.0 RET CV65BSX-2X2	



Product Specifications

MBDHH-65C-VTM

Andrew® Tri-band Teletilt® Antenna, 790–960 MHz and 2 x 1710–2180 MHz, 65° horizontal beamwidth, RET compatible



Electrical Specifications

	LB	LB	HB1	HB1	HB1	HB2	HB2	HB2
Frequency Band, MHz	790–896	870–960	1710–1880	1850–1990	1920–2180	1710–1880	1850–1990	1920–2180
Gain, dBi	16.5	17.0	17.4	17.5	17.5	16.6	16.6	16.8
Beamwidth, Horizontal, degrees	69	67	59	59	58	62	60	58
Beamwidth, Horizontal Tolerance, degrees	±3	±4	±5	±5	±5	±5	±5	±4
Beamwidth, Vertical, degrees	7.9	7.1	7.1	6.7	6.2	7.0	6.7	6.3
Beam Tilt, degrees	1–9	1–9	0–10	0–10	0–10	0–10	0–10	0–10
USLS, typical, dB	15	16	14	14	15	14	14	14
Front-to-Back Ratio at 180°, dB	27	32	31	29	29	30	29	28
CPR at Boresight, dB	22	24	20	19	18	20	20	18
CPR at Sector, dB	14	8	12	14	12	12	12	13
Isolation, dB	30	30	30	30	30	30	30	30
Isolation, Intersystem, dB	30	30	30	30	30	30	30	30
VSWR Return Loss, dB	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	300	300	250	250	250	250	250	250
Polarization	±45°	±45°	±45°	±45°	±45°	±45°	±45°	±45°

Mechanical Specifications

Color Radome Material	Light gray PVC, UV resistant
Connector Interface Location Quantity	7-16 DIN Female Bottom 6
Wind Loading, maximum	930.0 N @ 150 km/h 209.1 lbf @ 150 km/h
Wind Speed, maximum	241.4 km/h 150.0 mph
Antenna Dimensions, L x W x D	2578.0 mm x 301.0 mm x 181.0 mm 101.5 in x 11.9 in x 7.1 in
Net Weight	23.5 kg 51.8 lb
Model with factory installed AISG 2.0 RET	MBDHH-65C-A3M



Product Specifications

CW65BSX-M

Andrew® Tri-band Antenna, 1 x 790–960 MHz and 2 x 1710–2690 MHz, 65° horizontal beamwidth, RET compatible



Electrical Specifications

Frequency Band, MHz	790–896	870–960	1710–1880	1850–1990	1920–2180	2300–2500	2500–2690
Gain by all Beam Tilts, average, dBi	15.4	15.5	17.3	17.5	17.7	17.7	17.9
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.4	±0.2	±0.3	±0.5	±0.6	±0.4
Gain by Beam Tilt, average, dBi	0 ° 15.4	0 ° 15.5	2 ° 17.2	2 ° 17.3	2 ° 17.5	2 ° 17.5	2 ° 17.7
	5 ° 15.4	5 ° 15.6	7 ° 17.4	7 ° 17.5	7 ° 17.8	7 ° 17.9	7 ° 18.1
	10 ° 15.2	10 ° 15.2	12 ° 17.2	12 ° 17.4	12 ° 17.6	12 ° 17.5	12 ° 17.7
Beamwidth, Horizontal, degrees	62	61	70	68	67	58	60
Beamwidth, Horizontal Tolerance, degrees	±2.7	±1.8	±3.2	±2.9	±5.5	±5.2	±5.8
Beamwidth, Vertical, degrees	10.5	9.6	5.6	5.3	5.1	4.3	4.1
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.7	±0.3	±0.2	±0.3	±0.2	±0.2
Beam Tilt, degrees	0–10	0–10	2–12	2–12	2–12	2–12	2–12
USLS, dB	17	16	16	17	17	16	18
Front-to-Back Total Power at 180° ± 30°, dB	25	27	26	25	23	21	24
CPR at Sector, dB	11	11	12	10	10	5	6
Isolation, dB	28	28	28	28	28	28	28
Isolation, Intersystem, dB	30	30	30	30	30	30	30
VSWR Return Loss, dB	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	350	350	350	350	350	300	300
Polarization	±45°	±45°	±45°	±45°	±45°	±45°	±45°

*Values calculated using NGMN Alliance N-P-BASTA v9.6

Mechanical Specifications

Color Radome Material	Light gray Fiberglass, UV resistant
Connector Interface Location Quantity	7-16 DIN Female Bottom 6
Wind Loading, maximum	669.0 N @ 150 km/h 150.4 lbf @ 150 km/h
Wind Speed, maximum	241.0 km/h 149.8 mph
Antenna Dimensions, L x W x D	1970.0 mm x 301.0 mm x 181.0 mm 77.6 in x 11.9 in x 7.1 in
Net Weight	18.8 kg 41.4 lb
Model with factory installed AISG 2.0 RET CVV65BSX-3X2	



Product Specifications

CW65CSX-M

Andrew® Tri-band Teletilt® Antenna, 1 x 790–960 MHz and 2 x 1710–2690 MHz, 65° horizontal beamwidth, RET compatible



Electrical Specifications

Frequency Band, MHz	790–896	870–960	1710–1880	1850–1990	1920–2180	2300–2500	2500–2690
Gain by all Beam Tilts, average, dBi	16.4	16.5	17.3	17.5	17.7	17.7	17.9
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.4	±0.2	±0.3	±0.5	±0.6	±0.4
Gain by Beam Tilt, average, dBi	0 ° 16.4	0 ° 16.5	2 ° 17.2	2 ° 17.3	2 ° 17.5	2 ° 17.5	2 ° 17.7
	5 ° 16.4	5 ° 16.5	7 ° 17.4	7 ° 17.5	7 ° 17.8	7 ° 17.9	7 ° 18.1
	10 ° 16.2	10 ° 16.2	12 ° 17.2	12 ° 17.4	12 ° 17.6	12 ° 17.5	12 ° 17.7
Beamwidth, Horizontal, degrees	62	61	70	68	67	58	60
Beamwidth, Horizontal Tolerance, degrees	±2	±2	±3.2	±2.9	±5.5	±5.2	±5.8
Beamwidth, Vertical, degrees	8.2	7.6	5.6	5.3	5.1	4.3	4.1
Beamwidth, Vertical Tolerance, degrees	±0.5	±0.5	±0.3	±0.2	±0.3	±0.2	±0.2
Beam Tilt, degrees	0–10	0–10	2–12	2–12	2–12	2–12	2–12
USLS, dB	17	16	16	17	17	16	18
Front-to-Back Total Power at 180° ± 30°, dB	26	27	26	25	23	21	24
CPR at Sector, dB	13	14	12	10	10	5	6
Isolation, dB	28	28	28	28	28	28	28
Isolation, Intersystem, dB	30	30	30	30	30	30	30
VSWR Return Loss, dB	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	350	350	350	350	350	300	300
Polarization	±45°	±45°	±45°	±45°	±45°	±45°	±45°

*Values calculated using NGMN Alliance N-P-BASTA v9.6

Mechanical Specifications

Color Radome Material	Light gray Fiberglass, UV resistant
Connector Interface Location Quantity	7-16 DIN Female Bottom 6
Wind Loading, maximum	879.0 N @ 150 km/h 197.6 lbf @ 150 km/h
Wind Speed, maximum	241.0 km/h 149.8 mph
Antenna Dimensions, L x W x D	2449.0 mm x 301.0 mm x 181.0 mm 96.4 in x 11.9 in x 7.1 in
Net Weight	22.2 kg 48.9 lb
Model with factory installed AISG 2.0 RET CVV65CSX-3X2	



Product Specifications

COMMScope®

CWPX303F1

Argus® Tri-band Antenna, 790–960 MHz and 2 x 1710–2690 MHz, 65° horizontal beamwidth, fixed electrical tilt

POWERED BY



Electrical Specifications

Frequency Band, MHz	790–890	890–960	1710–1920	1920–2170	2300–2690
Gain, dBi	11.8	12.5	11.8	12.5	12.8
Beamwidth, Horizontal, degrees	64	62	60	60	62
Beamwidth, Vertical, degrees	27.0	25.0	25.0	22.0	18.0
Beam Tilt, degrees	0	0	0	0	0
USLS, dB	15	15	15	15	15
Front-to-Back Ratio at 180°, dB	25	25	25	25	25
Isolation, dB	20	20	25	25	25
Isolation, Intersystem, dB	30	30	30	30	30
VSWR Return Loss, dB	1.43 15.0	1.43 15.0	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	300	300	250	250	250
Polarization	±45°	±45°	±45°	±45°	±45°

Mechanical Specifications

Connector Interface | Location | Quantity 7-16 DIN Female | Bottom | 6

Wind Loading, maximum 450.0 N @ 160 km/h
101.2 lbf @ 160 km/h

Wind Speed, maximum 200.0 km/h | 124.3 mph

Antenna Dimensions, L x W x D 860.0 mm x 353.0 mm x 209.0 mm | 33.9 in x 13.9 in x 8.2 in

Net Weight 11.0 kg | 24.3 lb



Product Specifications

COMMScope®

CWVPX304R3

Argus® Tri-band Antenna, 790–960 MHz and 2 x 1710–2690 MHz, 65° horizontal beamwidth, internal electrical tilt with manual override.



Electrical Specifications

Frequency Band, MHz	790–890	890–960	1710–1920	1920–2170	2300–2690
Gain, dBi	13.2	13.4	13.0	13.5	14.2
Beamwidth, Horizontal, degrees	65	63	62	61	62
Beamwidth, Vertical, degrees	21.0	19.5	20.0	18.0	14.5
Beam Tilt, degrees	0–10	0–10	0–10	0–10	0–10
USLS, dB	17	17	15	15	15
Front-to-Back Ratio at 180°, dB	25	25	25	25	25
Isolation, dB	25	25	25	25	25
Isolation, Intersystem, dB	30	30	30	30	30
VSWR Return Loss, dB	1.43 15.0	1.43 15.0	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	300	300	250	250	250
Polarization	±45°	±45°	±45°	±45°	±45°

Mechanical Specifications

Connector Interface | Location | Quantity 7-16 DIN Female | Bottom | 6

Wind Loading, maximum 580.0 N @ 160 km/h
130.4 lbf @ 160 km/h

Wind Speed, maximum 200.0 km/h | 124.3 mph

Antenna Dimensions, L x W x D 1093.0 mm x 353.0 mm x 209.0 mm | 43.0 in x 13.9 in x 8.2 in

Net Weight 14.5 kg | 32.0 lb



Product Specifications

COMMScope®

CWVPX306R3

Argus® Tri-band Antenna, 790–960 MHz and 2 x 1710–2690 MHz, 65° horizontal beamwidth, internal electrical tilt with manual override.



Electrical Specifications

Frequency Band, MHz	790–890	890–960	1710–1920	1920–2170	2300–2690
Gain, dBi	14.5	14.8	14.5	15.2	16.2
Beamwidth, Horizontal, degrees	64	62	60	60	62
Beamwidth, Vertical, degrees	14.8	13.5	13.5	12.0	9.5
Beam Tilt, degrees	0–10	0–10	0–10	0–10	0–10
USLS, dB	18	18	18	18	18
Front-to-Back Ratio at 180°, dB	25	25	25	25	25
Isolation, dB	25	25	25	25	25
Isolation, Intersystem, dB	30	30	30	30	30
VSWR Return Loss, dB	1.43 15.0	1.43 15.0	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	300	300	250	250	250
Polarization	±45°	±45°	±45°	±45°	±45°

Mechanical Specifications

Connector Interface | Location | Quantity 7-16 DIN Female | Bottom | 6

Wind Loading, maximum 820.0 N @ 160 km/h
184.3 lbf @ 160 km/h

Wind Speed, maximum 200.0 km/h | 124.3 mph

Antenna Dimensions, L x W x D 1560.0 mm x 353.0 mm x 209.0 mm | 61.4 in x 13.9 in x 8.2 in

Net Weight 21.0 kg | 46.3 lb



Product Specifications

COMMScope®

CWXP308.10R3

Argus® Tri-band Antenna, 790–960 MHz and 2 x 1710–2690 MHz, 65° horizontal beamwidth, internal electrical tilt with manual override.



Electrical Specifications

Frequency Band, MHz	790–890	890–960	1710–1920	1920–2170	2300–2690
Gain, dBi	15.8	16.0	16.5	17.2	18.2
Beamwidth, Horizontal, degrees	60	60	65	62	60
Beamwidth, Vertical, degrees	11.0	10.0	8.0	7.0	5.7
Beam Tilt, degrees	0–10	0–10	0–10	0–10	0–10
USLS, dB	18	18	18	18	18
Front-to-Back Ratio at 180°, dB	25	25	25	25	25
Isolation, dB	25	25	25	25	25
Isolation, Intersystem, dB	30	30	30	30	30
VSWR Return Loss, dB	1.43 15.0	1.43 15.0	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	300	300	250	250	250
Polarization	±45°	±45°	±45°	±45°	±45°

Mechanical Specifications

Connector Interface | Location | Quantity 7-16 DIN Female | Bottom | 6

Wind Loading, maximum 1060.0 N @ 160 km/h
238.3 lbf @ 160 km/h

Wind Speed, maximum 200.0 km/h | 124.3 mph

Antenna Dimensions, L x W x D 2025.0 mm x 354.0 mm x 210.0 mm | 79.7 in x 13.9 in x 8.3 in

Net Weight 26.0 kg | 57.3 lb



Product Specifications

COMMScope®

CWVPX310R1

Argus® Tri-band Antenna, 790–960 MHz and 2 x 1710–2690 MHz, 65° horizontal beamwidth, internal electrical tilt with manual override. Bands cascaded SRET.



Electrical Specifications

Frequency Band, MHz	790–890	890–960	1710–1920	1920–2170	2300–2690
Gain, dBi	16.5	16.8	16.5	17.0	18.0
Beamwidth, Horizontal, degrees	64	62	60	60	62
Beamwidth, Vertical, degrees	8.8	8.0	8.2	7.2	5.8
Beam Tilt, degrees	0–10	0–10	0–10	0–10	0–10
USLS, dB	18	18	18	18	18
Front-to-Back Ratio at 180°, dB	25	25	25	25	25
Isolation, dB	25	25	25	25	25
Isolation, Intersystem, dB	30	30	30	30	30
VSWR Return Loss, dB	1.43 15.0	1.43 15.0	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	300	300	250	250	250
Polarization	±45°	±45°	±45°	±45°	±45°

Mechanical Specifications

Connector Interface | Location | Quantity 7-16 DIN Female | Bottom | 6

Wind Loading, maximum
1300.0 N @ 160 km/h
292.3 lbf @ 160 km/h

Wind Speed, maximum
200.0 km/h | 124.3 mph

Antenna Dimensions, L x W x D
2494.0 mm x 353.0 mm x 209.0 mm | 98.2 in x 13.9 in x 8.2 in

Net Weight
31.0 kg | 68.3 lb



Product Specifications

COMMScope®

RVPX305.10R3

Argus® Multi-band Antenna, 698–960 MHz and 2 x 1710–2690 MHz, 65° horizontal beamwidth, internal electrical tilt with manual override.



Electrical Specifications

Frequency Band, MHz	698–790	790–890	890–960	1710–1920	1920–2170	2300–2690
Gain by all Beam Tilts, average, dBi	13.3	13.5	14.1	16.4	16.9	17.4
Gain by all Beam Tilts Tolerance, dB	±0.2	±0.2	±0.2	±0.6	±0.4	±0.6
Gain by Beam Tilt, average, dBi	0 ° 13.3	0 ° 13.6	0 ° 14.1	0 ° 16.4	0 ° 16.9	0 ° 17.6
	5 ° 13.3	5 ° 13.5	5 ° 14.1	5 ° 16.4	5 ° 16.8	5 ° 17.5
	10 ° 13.3	10 ° 13.5	10 ° 14.0	10 ° 16.4	10 ° 16.9	10 ° 17.1
Beamwidth, Horizontal, degrees	68	69	63	62	63	62
Beamwidth, Horizontal Tolerance, degrees	±1.9	±1.9	±2	±2.9	±4.8	±6.4
Beamwidth, Vertical, degrees	20.2	18.1	16.6	8.2	7.3	6.0
Beamwidth, Vertical Tolerance, degrees	±1	±1.1	±0.8	±0.5	±0.6	±0.5
Beam Tilt, degrees	0–10	0–10	0–10	0–10	0–10	0–10
USLS, dB	18	18	18	18	18	18
Null Fill, dB				-22	-22	-22
Front-to-Back Total Power at 180° ± 30°, dB	24	23	23	23	25	26
CPR at Boresight, dB	17	13	13	21	18	18
CPR at Sector, dB	11	10	8	7	5	4
Isolation, dB	25	25	25	25	25	25
Isolation, Intersystem, dB	28	30	30	27	28	30
VSWR Return Loss, dB	1.43 15.0	1.43 15.0	1.43 15.0	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	300	300	300	250	250	250
Polarization	±45°	±45°	±45°	±45°	±45°	±45°

Mechanical Specifications

Connector Interface | Location | Quantity 7-16 DIN Female | Bottom | 6

Wind Loading, maximum 570.0 N @ 150 km/h
128.1 lbf @ 150 km/h

Wind Speed, maximum 250.0 km/h | 155.3 mph

Antenna Dimensions, L x W x D 1380.0 mm x 353.0 mm x 209.0 mm | 54.3 in x 13.9 in x 8.2 in

Net Weight 20.0 kg | 44.1 lb



Product Specifications

COMMScope®

RWVPX306.11R3

Argus® Multi-band Antenna, 698–960 MHz and 2 x 1710–2690 MHz, 65° horizontal beamwidth, internal electrical tilt with manual override.



Electrical Specifications

Frequency Band, MHz	698–790	790–890	890–960	1710–1920	1920–2170	2300–2690
Gain by all Beam Tilts, average, dBi	13.9	14.2	14.8	16.8	17.3	17.7
Gain by all Beam Tilts Tolerance, dB	±0.2	±0.2	±0.1	±0.6	±0.3	±0.6
Gain by Beam Tilt, average, dBi	0 ° 13.9	0 ° 14.2	0 ° 14.8	0 ° 16.8	0 ° 17.2	0 ° 17.8
	5 ° 13.9	5 ° 14.2	5 ° 14.8	5 ° 16.8	5 ° 17.2	5 ° 17.8
	10 ° 13.9	10 ° 14.1	10 ° 14.7	10 ° 16.8	10 ° 17.3	10 ° 17.5
Beamwidth, Horizontal, degrees	68	69	63	62	63	61
Beamwidth, Horizontal Tolerance, degrees	±1.6	±1.8	±2	±2.8	±5.1	±6.3
Beamwidth, Vertical, degrees	16.4	14.7	13.4	7.5	6.7	5.4
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.9	±0.5	±0.5	±0.5	±0.4
Beam Tilt, degrees	0–10	0–10	0–10	0–10	0–10	0–10
USLS, dB	20	20	20	21	22	20
Front-to-Back Total Power at 180° ± 30°, dB	25	23	24	23	25	25
CPR at Boresight, dB	16	13	13	21	19	18
CPR at Sector, dB	11	10	8	7	5	5
Isolation, dB	25	25	25	25	25	25
Isolation, Intersystem, dB	25	25	25	25	25	25
VSWR Return Loss, dB	1.43 15.0	1.43 15.0	1.43 15.0	1.43 15.0	1.43 15.0	1.43 15.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	300	300	300	250	250	250
Polarization	±45°	±45°	±45°	±45°	±45°	±45°

*Values calculated using NGMN Alliance N-P-BASTA v9.6

Mechanical Specifications

Connector Interface Location Quantity	7-16 DIN Female Bottom 6
Wind Loading, maximum	748.0 N @ 150 km/h 168.2 lbf @ 150 km/h
Wind Speed, maximum	250.0 km/h 155.3 mph
Antenna Dimensions, L x W x D	1600.0 mm x 353.0 mm x 209.0 mm 63.0 in x 13.9 in x 8.2 in
Net Weight	23.0 kg 50.7 lb



Product Specifications

COMMScope®

RWVPX308.14R3

Argus® Multi-band Antenna, 698–960 MHz and 2 x 1710–2690 MHz, 65° horizontal beamwidth, internal electrical tilt with manual override.



Electrical Specifications

Frequency Band, MHz	698–790	790–890	890–960	1710–1920	1920–2170	2300–2690
Gain by all Beam Tilts, average, dBi	14.8	15.1	15.7	17.6	18.1	18.6
Gain by all Beam Tilts Tolerance, dB	±0.2	±0.2	±0.2	±0.6	±0.3	±0.6
Gain by Beam Tilt, average, dBi	0 ° 14.9	0 ° 15.1	0 ° 15.7	0 ° 17.6	0 ° 18.0	0 ° 18.6
	5 ° 14.8	5 ° 15.1	5 ° 15.7	5 ° 17.6	5 ° 18.0	5 ° 18.7
	10 ° 14.7	10 ° 15.0	10 ° 15.6	10 ° 17.6	10 ° 18.1	10 ° 18.3
Beamwidth, Horizontal, degrees	68	69	63	62	63	62
Beamwidth, Horizontal Tolerance, degrees	±1.2	±2	±1.7	±2.8	±5.4	±6.6
Beamwidth, Vertical, degrees	12.4	11.0	10.1	5.8	5.1	4.2
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.6	±0.4	±0.3	±0.4	±0.3
Beam Tilt, degrees	0–10	0–10	0–10	0–10	0–10	0–10
USLS, dB	21	20	21	20	20	19
Null Fill, dB	-19	-18	-19	-39	-41	-37
Front-to-Back Total Power at 180° ± 30°, dB	25	23	24	23	25	25
CPR at Boresight, dB	9	13	18	30	32	34
CPR at Sector, dB	11	10	8	7	5	5
Isolation, dB	25	25	25	25	25	25
Isolation, Intersystem, dB	30	30	30	30	30	30
VSWR Return Loss, dB	1.43 15.0	1.43 15.0	1.43 15.0	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	300	300	300	250	250	250
Polarization	±45°	±45°	±45°	±45°	±45°	±45°

*Values calculated using NGMN Alliance N-P-BASTA v9.6

Mechanical Specifications

Connector Interface Location Quantity	7-16 DIN Female Bottom 6
Wind Loading, maximum	987.0 N @ 150 km/h 221.9 lbf @ 150 km/h
Wind Speed, maximum	250.0 km/h 155.3 mph
Antenna Dimensions, L x W x D	2065.0 mm x 353.0 mm x 209.0 mm 81.3 in x 13.9 in x 8.2 in
Net Weight	28.0 kg 61.7 lb



Product Specifications

COMMScope®

RVVPX310R-V

Argus® Multi-band Antenna, 698–960 MHz and 2 x 1710–2690 MHz, 65° horizontal beamwidth, internal electrical tilt with manual override. Bands cascaded SRET.



Electrical Specifications

Frequency Band, MHz	698–790	790–890	890–960	1710–1920	1920–2170	2300–2690
Gain, dBi	16.0	16.2	16.5	16.8	17.2	18.0
Beamwidth, Horizontal, degrees	66	63	61	65	62	60
Beamwidth, Vertical, degrees	9.8	8.8	8.0	8.2	7.2	5.8
Beam Tilt, degrees	0–10	0–10	0–10	0–10	0–10	0–10
USLS, dB	18	18	18	18	18	18
Null Fill, dB	-22	-22	-22	-22	-22	-22
Front-to-Back Ratio at 180°, dB	25	25	25	25	25	25
Isolation, dB	25	25	25	25	25	25
Isolation, Intersystem, dB	30	30	30	30	30	30
VSWR Return Loss, dB	1.43 15.0	1.43 15.0	1.43 15.0	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	300	300	300	250	250	250
Polarization	±45°	±45°	±45°	±45°	±45°	±45°

Mechanical Specifications

Connector Interface | Location | Quantity 7-16 DIN Female | Bottom | 6

Wind Loading, maximum
1100.0 N @ 160 km/h
247.3 lbf @ 160 km/h

Wind Speed, maximum
200.0 km/h | 124.3 mph

Antenna Dimensions, L x W x D
2490.0 mm x 296.0 mm x 244.0 mm | 98.0 in x 11.7 in x 9.6 in

Net Weight
31.0 kg | 68.3 lb



Product Specifications

COMMScope®

CV3PX308R1

Argus® Multi Band Antenna, 790–960 MHz and 3 x 1710–2690 MHz, 65° horizontal beamwidth, internal electrical tilt with manual override. Bands cascaded SRET.



Electrical Specifications

Frequency Band, MHz	790–896	870–960	1710–2170	2300–2500	2500–2690
Gain by all Beam Tilts, average, dBi	15.3	15.6	15.4	16.1	16.2
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.3	±0.5	±0.5	±0.5
Gain by Beam Tilt, average, dBi	0 ° 15.4	0 ° 15.6	0 ° 15.5	0 ° 16.3	0 ° 16.5
	5 ° 15.4	5 ° 15.6	5 ° 15.4	5 ° 16.1	5 ° 16.3
	10 ° 15.3	10 ° 15.5	10 ° 15.4	10 ° 15.8	10 ° 16.0
Beamwidth, Horizontal, degrees	65	64	61	66	61
Beamwidth, Horizontal Tolerance, degrees	±1.6	±1.5	±3	±5	±6
Beamwidth, Vertical, degrees	11.1	10.5	9.9	7.8	7.1
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.4	±1.1	±0.5	±0.5
Beam Tilt, degrees	0–10	0–10	0–10	0–10	0–10
USLS, dB	22	23	21	20	19
Front-to-Back Total Power at 180° ± 30°, dB	24	26	23	27	25
CPR at Boresight, dB	17	16	18	19	20
CPR at Sector, dB	9	9	5	6	4
Isolation, dB	25	25	25	25	25
Isolation, Intersystem, dB	30	30	30	30	30
VSWR Return Loss, dB	1.43 15.0	1.43 15.0	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	300	300	250	250	250
Polarization	±45°	±45°	±45°	±45°	±45°

*Values calculated using NGMN Alliance N-P-BASTA v9.6

Mechanical Specifications

Connector Interface Location Quantity	7-16 DIN Female Bottom 8
Wind Loading, maximum	951.0 N @ 150 km/h 213.8 lbf @ 150 km/h
Wind Speed, maximum	241.0 km/h 149.8 mph
Antenna Dimensions, L x W x D	2067.0 mm x 353.0 mm x 209.0 mm 81.4 in x 13.9 in x 8.2 in
Net Weight	27.1 kg 59.7 lb



Product Specifications

COMMScope®

CV3PX310R1

Argus® Multi Band Antenna, 790–960 MHz and 3 x 1710–2690 MHz, 65° horizontal beamwidth, internal electrical tilt with manual override. Bands cascaded SRET.



Electrical Specifications

	Band 1	Band 1	Band 2	Band 2	Band 2	Band 3	Band 3	Band 3	Band 4	Band 4	Band 4
Frequency Band, MHz	790–890	890–960	1710–1920	1920–2170	2300–2690	1710–1920	1920–2170	2300–2690	1710–1920	1920–2170	2300–2690
Gain, dBi	16.5	16.8	16.5	17.0	18.0	16.5	17.0	18.0	16.5	16.7	17.7
Beamwidth, Horizontal, degrees	64	62	60	60	62	60	60	62	60	60	62
Beamwidth, Vertical, degrees	8.8	8.0	8.0	7.2	5.8	8.0	7.2	5.8	8.0	7.2	5.8
Beam Tilt, degrees	0–10	0–10	0–10	0–10	0–10	0–10	0–10	0–10	0–10	0–10	0–10
USLS, dB	18	18	18	18	18	18	18	18	18	18	18
Front-to-Back Ratio at 180°, dB	25	25	25	25	25	25	25	25	25	25	25
Isolation, dB	25	25	25	25	25	25	25	25	25	25	25
Isolation, Intersystem, dB	30	30	30	30	30	30	30	30	30	30	30
VSWR Return Loss, dB	1.43 15.0	1.43 15.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	300	300	250	250	250	250	250	250	250	250	250
Polarization	±45°	±45°	±45°	±45°	±45°	±45°	±45°	±45°	±45°	±45°	±45°

Mechanical Specifications

Connector Interface | Location | Quantity 7-16 DIN Female | Bottom | 8

Wind Loading, maximum 1320.0 N @ 160 km/h
296.7 lbf @ 160 km/h

Wind Speed, maximum 200.0 km/h | 124.3 mph

Antenna Dimensions, L x W x D 2533.0 mm x 353.0 mm x 209.0 mm | 99.7 in x 13.9 in x 8.2 in

Net Weight 36.0 kg | 79.4 lb



Product Specifications

COMMScope®

RV4PX310B1

Argus® Multi-band Antenna, 698–960 MHz and 4 x 1710–2690 MHz, 65° horizontal beamwidth, internal electrical tilt with manual override. Internal Bias-Tee from port 1 band 1. Bands cascaded SRET.



Electrical Specifications

	LB	LB	LB	HB1/HB2	HB1/HB2	HB1/HB2	HB3/HB4	HB3/HB4	HB3/HB4
Frequency Band, MHz	698–790	790–890	890–960	1710–1920	1920–2170	2300–2690	1710–1920	1920–2170	2300–2690
Gain, dBi	16.0	16.2	16.5	16.8	17.2	18.0	16.5	16.9	17.7
Beamwidth, Horizontal, degrees	67	65	62	62	62	62	62	62	62
Beamwidth, Vertical, degrees	9.8	8.8	8.0	8.2	7.2	5.8	8.2	7.2	5.8
Beam Tilt, degrees	0–10	0–10	0–10	0–10	0–10	0–10	0–10	0–10	0–10
USLS, dB	18	18	18	18	18	18	18	18	18
Null Fill, dB	-22	-22	-22	-22	-22	-22	-22	-22	-22
Front-to-Back Ratio at 180°, dB	25	25	25	25	25	25	25	25	25
Isolation, dB	25	25	25	25	25	25	25	25	25
Isolation, Intersystem, dB	30	30	30	30	30	30	30	30	30
VSWR Return Loss, dB	1.43 15.0	1.43 15.0	1.43 15.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	300	300	300	250	250	250	250	250	250
Polarization	±45°	±45°	±45°	±45°	±45°	±45°	±45°	±45°	±45°

Mechanical Specifications

Connector Interface | Location | Quantity 7-16 DIN Female | Bottom | 10

Wind Loading, maximum 1320.0 N @ 160 km/h
296.7 lbf @ 160 km/h

Wind Speed, maximum 200.0 km/h | 124.3 mph

Antenna Dimensions, L x W x D 2533.0 mm x 353.0 mm x 209.0 mm | 99.7 in x 13.9 in x 8.2 in

Net Weight 37.0 kg | 81.6 lb



Product Specifications

COMMScope®

RV4PX31OR

Argus® Multi-band Antenna, 698–960 MHz and 4 x 1710–2690 MHz, 65° horizontal beamwidth, internal electrical tilt with manual override. Bands cascaded SRET.



Electrical Specifications

	LB	LB	LB	HB1/HB2	HB1/HB2	HB1/HB2	HB3/HB4	HB3/HB4	HB3/HB4
Frequency Band, MHz	698–790	790–890	890–960	1710–1920	1920–2170	2300–2690	1710–1920	1920–2170	2300–2690
Gain, dBi	16.0	16.2	16.5	16.8	17.2	18.0	16.5	16.9	17.7
Beamwidth, Horizontal, degrees	67	65	62	62	62	62	62	62	62
Beamwidth, Vertical, degrees	9.8	8.8	8.0	8.2	7.2	5.8	8.2	7.2	5.8
Beam Tilt, degrees	0–10	0–10	0–10	0–10	0–10	0–10	0–10	0–10	0–10
USLS, dB	18	18	18	18	18	18	18	18	18
Null Fill, dB	-22	-22	-22	-22	-22	-22	-22	-22	-22
Front-to-Back Ratio at 180°, dB	25	25	25	25	25	25	25	25	25
Isolation, dB	25	25	25	25	25	25	25	25	25
Isolation, Intersystem, dB	30	30	30	30	30	30	30	30	30
VSWR Return Loss, dB	1.43 15.0	1.43 15.0	1.43 15.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	300	300	300	250	250	250	250	250	250
Polarization	±45°	±45°	±45°	±45°	±45°	±45°	±45°	±45°	±45°

Mechanical Specifications

Connector Interface | Location | Quantity 7-16 DIN Female | Bottom | 10

Wind Loading, maximum 1320.0 N @ 160 km/h
296.7 lbf @ 160 km/h

Wind Speed, maximum 200.0 km/h | 124.3 mph

Antenna Dimensions, L x W x D 2533.0 mm x 353.0 mm x 209.0 mm | 99.7 in x 13.9 in x 8.2 in

Net Weight 37.0 kg | 81.6 lb



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