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COMMSCOPE®

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

COMMSCOPE®

LDX-3316DS-VTM

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

POWERED BY ANDREW.

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 7 ° | 17.5 12 ° | 17.5	2 ° | 18.0 7 ° | 18.0 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

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Product Specifications

COMMSCOPE®

LDX-6513DS-VTM

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

POWERED BY ANDREW.

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

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Product Specifications

COMMSCOPE®

LDX-6515DSP-VTM

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

POWERED BY ANDREW

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

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Product Specifications

COMMSCOPE®

LDX-6515DS-VTM

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

POWERED BY ANDREW

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 5 ° | 16.3 10 ° | 16.2	0 ° | 16.3 5 ° | 16.4 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

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Product Specifications

COMMSCOPE®

LDX-6516DS-VTM

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

POWERED BY ANDREW

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

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Product Specifications

COMMSCOPE®

LRX-8512DS-VTM

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

POWERED BY ANDREW.

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

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Product Specifications

COMMSCOPE®

LDX-9013DS-VTM

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

POWERED BY ANDREW.

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

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Product Specifications

COMMSCOPE®

LDX-9014DS-VTM

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

POWERED BY ANDREW

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

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Product Specifications

COMMSCOPE®

LDXX-6515DS-VTM

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

POWERED BY ANDREW.

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

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Product Specifications

COMMSCOPE®

LDXX-6516DS-VTM

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

POWERED BY ANDREW

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

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Product Specifications

COMMSCOPE®

LDXX-9013DS-VTM

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

POWERED BY ANDREW.

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

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