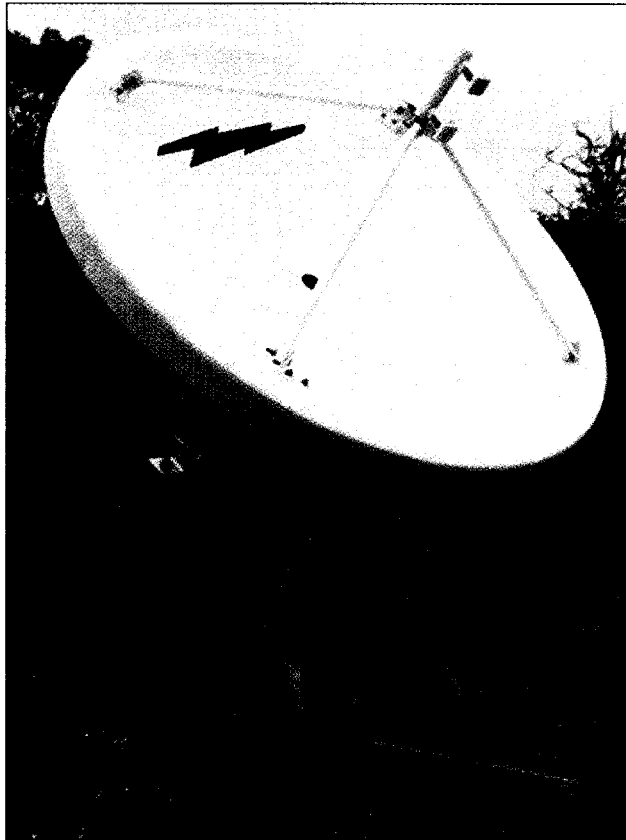




ValuStar™ Earth Station Antennas



1.2-Meter ValuStar™ Antenna with Optional MNT18 Mount

ValuStar™

1.2-/1.8-/2.4-/3.0-/3.6-Meter Earth Station Antennas

Features:

- C 3.625-4.2 GHz
UC 4.5-4.8 GHz
Ku 10.7-12.75 GHz
- Dual-Polarized, High Gain
- R/T Version on Application
- 125 mph (200 km/h) Wind Survival in any Position
- Anti-icing Options
- Fast, Simple Installation

ValuStar™ antennas from Andrew are small-diameter, superior quality, earth station antennas for professional services where reliability and durability are essential. They are ideal for broadcast distribution applications.

ValuStar antennas are available in sizes from 1.2- to 3.6-meters and feature an interchangeable, high performance, dual-polarized receive-only feed system that provides optimum gain.

To reduce overall project costs and allow local product manufacture and labor content, the basic antenna is provided with a high-quality azimuth/elevation mount. This mount can be connected to either an Andrew provided (vertical) pipe, or a customer provided (vertical) pipe, and can be held in the vertical position by casting it into a concrete foundation. An optional mount can be offered to bolt to a foundation or other suitable mounting structure.

The antennas use rugged, high accuracy, spun aluminum reflectors which are conversion coated and painted white.

Hot-dip galvanizing of the steel mount parts and careful choice of all materials ensure reliable performance and long life in adverse environments.

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Earth Station Antenna Products and Systems

Electrical

Antenna Type	ES12	ES18	ES24	ES30	ES36
Diameter, meters	1.2	1.8	2.4	3.0	3.6
Gain, dBi with 2-port combiner					
3.625	30.7	34.3	37.0	38.8	39.6
4.000	31.4	35.0	37.7	39.5	40.3
4.200	31.8	35.4	37.8	40.0	41.3
4.500	32.4	36.0	38.7	40.5	41.9
4.650	32.7	36.3	39.0	40.8	42.2
4.800	33.0	36.6	39.3	41.1	42.5
10.70	40.0	43.6	46.3	48.2	49.4
10.95	40.2	43.8	46.5	48.4	49.6
11.95	40.8	44.4	47.2	49.0	50.2
12.75	41.6	45.1	48.0	49.8	50.9
VSWR, maximum	1.3	1.3	1.3	1.3	1.3
Cross Polar Discrimination (linear), dB	30	30	30	30	30
Voltage Axial Ratio (circular)	1.3	1.3	1.3	1.3	1.3
3 dB Beamwidth, degrees	C UC Ku 4.7 4.0 1.7	C UC Ku 3.1 2.7 1.0	C UC Ku 2.4 2.0 0.75	C UC Ku 1.9 1.6 0.60	C UC Ku 1.6 1.3 0.50
ES12 - Noise Temperature, K	C-Band 2-Port Linear/Circular		UC 2-Port Linear		Ku-Band 2-Port Linear
at 10 degrees elevation	42K		43K		58K
at 30 degrees elevation	33K		34K		49K
at 50 degrees elevation	29K		30K		45K
ES18 - Noise Temperature, K	C-Band 2-Port Linear/Circular		UC 2-Port Linear		Ku-Band 2-Port Linear
at 10 degrees elevation	36K		37K		50K
at 30 degrees elevation	29K		30K		42K
at 50 degrees elevation	25K		26K		38K
ES24 - Noise Temperature, K	C-Band 2-Port Linear/Circular		UC 2-Port Linear		Ku-Band 2-Port Linear
at 10 degrees elevation	31K		32K		43K
at 30 degrees elevation	24K		25K		35K
at 50 degrees elevation	20K		21K		31K
ES30 - Noise Temperature, K	C-Band 2-Port Linear/Circular		UC 2-Port Linear		Ku-Band 2-Port Linear
at 10 degrees elevation	25K		26K		35K
at 30 degrees elevation	18K		19K		26K
at 50 degrees elevation	14K		15K		22K
ES36 - Noise Temperature, K	C-Band 2-Port Linear/Circular		UC 2-Port Linear		Ku-Band 2-Port Linear
at 10 degrees elevation	29K		30K		41K
at 30 degrees elevation	22K		23K		32K
at 50 degrees elevation	18K		19K		28K

All of the above models include an az/el mount that interfaces to a customer-provided pipe or the MNT series of pipe.

Mechanical

Antenna Type	ES12	ES18	ES24	ES30	ES36
Survival Wind Rating, mph (km/h)	125 (200)	125 (200)	125 (200)	125 (200)	125 (200)
Mount Adjustment Range					
Elevation, degrees					
Coarse	0-90	0-90	0-90	0-90	0-90
Fine	± 7.5	± 7.5	± 7.5	± 7.5	± 7.5
Azimuth, degrees					
Coarse	360	360	360	360	360
Fine	± 7.5	± 7.5	± 7.5	± 7.5	± 7.5
Net Weight, lb (kg)	122 (55)	136 (62)	616 (280)	682 (310)	1067 (485)
Standard Reflector – Vertical Configuration	One-Piece	One-Piece	One-Piece	Two-Piece	Two-Piece
Mounting Pipe Size Needed, Nominal	4.5"	4.5"	6.625"	6.625"	6.625"

Surface anti-icing options: Antenna reflector surface anti-icing systems are available to prevent snow and ice from forming that would otherwise accumulate on the antenna reflector and affect the signal quality. These systems heat a 360 degree region of the reflector and come supplied with a precipitation sensing device, a temperature sensing control unit and all inter-connecting cables. In addition, a dish center heater is available, for use where ice and snow conditions may be severe.

Antenna Accessories

- Factory Feed System Testing and Documentation
- Ocean Transport Packing
- Anti-Icing and Deicing
- Grounding Kit
- LNA Support Kits

All designs, specifications and availabilities of products and services presented are subject to change without notice.