



Efficient Antenna Systems, Inc.

EASi. 4.5 meter heavy duty satellite antenna system

EASi. 4.5 meter AZ/EL Motorized/Fixed Antenna Package

- 12 stamped 14 gauge galvanized steel painted **interchangeable** panels
Damaged panels can be replaced individually
- 12 galvanized steel panel interchangeable braces
- 12 galvanized steel panel interchangeable radials
- Stainless steel reflector hardware
- 4 interchangeable heavy duty aluminum feed arms

EASi. 4.5 meter galvanized kingpost

- 14" diameter .375W A53 center tube with galvanized steel yoke frame made of:
 - Horizontal leg ½" wall 4"x 6" square tubing galvanized
 - Vertical leg 3/8" wall 4"x 4" square tubing galvanized

Optional rear kicker adapters available for special applications

EASi. fixed/manual AZ/EL turnbuckle kit (Optional)

- 1 ½" grade B7 threaded rods on both axis
- Elevation adjustment tube is 2 ½" square with ¼" wall thickness
- All EASi. antenna attachment/rotation points use SAE 660 bronze flanged bushings

EASi. 90 VDC ODU Control System (Requires 30 amp, 120 VAC circuit with disconnect)

- 90 VDC Motor drive outputs
- Dual speed motor control
- Integrated heater for dehydration purposes
- Environmentally sealed NEMA enclosure

Joyce Dayton 10 ton Azimuth ComDRIVE Package

- 10 ton machine screw ComDrives
- Special anti-backlash feature
- Built in digital tachometer for excellent accuracy
- 1 ½ HP Baldor 90 VDC outdoor rated motor
- Integrated electrical limit switches
- Integrated brush heaters
- Integrated hard stop collars
- Accordion weather boot
- System requires periodic lubrication

Joyce Dayton 10 ton Elevation ComDRIVE Package

- 10 ton machine screw ComDrive
- Special anti-backlash feature
- Built in digital tachometer for excellent accuracy
- 1 ½ HP Baldor 90 VDC outdoor rated motor
- Integrated electrical limit switches
- Integrated brush heaters
- Integrated hard stop collars
- Accordion weather boot
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EASI. lightning kits Class 1 and Class 2

- Thompson Lightning Products parts including:
 - 12" x 24" solid aluminum point blunt tip w/adapter
 - Aluminum vertical connector point base
 - Aluminum standard cable
 - All products are UL96 rated
 - Class 2 requirements sized accordingly

L Comm Lightning Protector

- DC-3 GHz
- Bi-directional protection
- Protector will pass DC
- Easily replaceable gas tube element
- Multi-Strike Capability

RCI 2000 Programmable Antenna Controller with feed drive option

- Automatic positioning after programming
- High resolution sensor processing
- Dual speed
- Non-volatile memory
- Built in current limiting
- Adapti-drive
- Software limits on all axis
- RS-422 PC control interface option

RCI 2000 Embedded controller option (Controller option for installation of controller at antenna)

- Programmable Antenna Controller with feed drive option
- Automatic positioning after programming
- High resolution sensor processing
- Dual speed
- Non-volatile memory
- Built in current limiting
- Adapti-drive
- Software limits on all axis
- RS-422 PC control interface option
- Outdoor NEMA enclosure

RCI Web Server for RCI Controllers

- Automatic and manual movement operation
- Displays system faults and allows fault resets
- Compatible with most web browsers
- Configurable IP address for easy network configuration

Seavey 4 port motorized C/Ku feed assembly

Waveguide bends
Factory tuned for C and Ku band performance
24 VDC drive motor
5K positioning pot
Waveguide bends to allow installation under protective cover

EASI. Feed cover for Seavey feeds

White weather resistant cover
Custom Seavey feed attachment brackets
Custom anti-intrusion inserts to resist pests

Norsat 3420 PLL C band LNBS

+/-2 kHz stability
20K temperature
62 dB gain(Typical)
+12 to +24V

Norsat HS1027A PLL Ku Band LNBS

+/-2 kHz stability
0.7 dB noise figure
60 dB gain(Typical)
+15-+24V

Microwave Filter Company 13961 WE TI filters

Improved insertion loss performance
Improved passband edge roll-off
Aluminum body to reduce weight/stress on feed system

EASI. CUSTOM control cable (Availability subject to inventory levels)
(UL) PLTC DIR BUR or (UL) ITC or (UL) CM C(UL) US 105°C SUN RES
DIR BUR "ROHS II" FT-4 Suitable for wet locations

Standards

- 11.1. UL listed as type PLTC per UL standard 13
- 11.2. Cable is UL approved for Sunlight Resistant and Direct Burial Applications
- 11.3. Cable is suitable for Wet Locations
- 11.4. All materials used in the manufacturing of this cable are RoHS II and REACH compliant
- 11.5. Maximum Operating Voltage: 300V RMS
- 11.6. Made in the USA

Commscope 5940R Quad RG 11 cable

75 ohm
14 AWG solid center conductor
14 SOL CCS FPE Foil+60% AL BRD+Foil+40% AL Braid FRPVC
Foam PE
5.08 (dB/100ft) attenuation at 1450 MHz
Safety Standard cETL ETL
CMR Non-Plenum
RoHS 2011/65/EU
ISO 9001 :2015
100% sweep tested
15 dB structural return loss @ 1000-3000 MHz

EASi. Wiring kits

Combination of RG 6 Quad feed motor control cable

Feed control cable

(UL) PLTC DIR BUR or (UL) ITC or (UL) CM C(UL)

US 105°C SUN RES DIR BUR “ROHS II” FT-4 Suitable for wet locations

Commscope 5781 RG 6 Quad

75 ohm

Bare copper center conductor

18 SOL BC FPE Foil+60% AL BRD+Foil+40% AL BRD FRPVC

CMG

cETL ETL

7.49 (dB/100ft) attenuation at 1450 MHz

RoHS 2011/65/EU

ISO 9001 :2015

15 dB structural return loss @ 1000-3000 MHz

Installations of EASi systems including controller programming for motorized antenna

Assembly of the following to manufacture spec:

Kingpost

Actuators or turnbuckle systems

Low voltage wiring of all required outdoor systems EASi supplied

Feed assembly with filters and LNBS. Low voltage if required

Complete reflector assembly with integration to kingpost

Low voltage wiring of all required indoor systems EASi supplied

Termination of all RF

Setup of all hard and soft limits

Antenna aiming and or programming of antenna controller

EASi. 4.5 De-Ice Options:

Clearsat Vinyl snow shield

Walton Kynar snow shield/opt. rain/ice quake/electric or gas heat

Walton Tedlar snow shield/opt. rain/ice quake/electric or gas heat

Walton Sefar snow shield/opt. rain/ice quake/electric or gas heat

RTI active rear mounted systems in multiple configurations

Walton rear mounted systems in multiple configurations

EASi. communication options for antenna control

RCI Web Server

Compusat type automation and control

Electrical Considerations for system installation:

All electrical services/connections to be completed by local licensed electrician

Electrician to be provided by buyer unless other arrangements made

90 VDC systems require 30 amp single phase 115 VAC circuit w/disconnect

De ice systems require applicable electrical service based on system

Disconnect may be required

GFI circuit may be required

All electrical services to be available at antenna location before or at time of install

