

Model 195Eg Specifications

LED Indicators	
Power On/Off	Receiver On/Off
Carrier Detect On/Off	Transmitter On/Off
Link Status On/Off	

I/O Connectors	
Ethernet 10/100Base T	RJ-45
RS-232C Programming Port	RJ-45
Dual Antenna input/Outputs	TNC Reverse Female
Direct Input Power	Header Screw Connector

Transmitter	
Frequency of Operation	4.960 & 4.980 GHz Software Selectable with two Channels
RF Data Rates	1,2,5.5,6,9, & 11 Mbps Fixed or Auto Scaling DSSS/CCK Modulation
Tx Output Power	2 Watts (peak) / 1 watt (average)
RF Output Impedance	50 ohms

Receiver	
Rx Sensitivity	-85 dBm @ 11 Mbps to -92 dBm @ 1 Mbps Frame Error Rate <10%

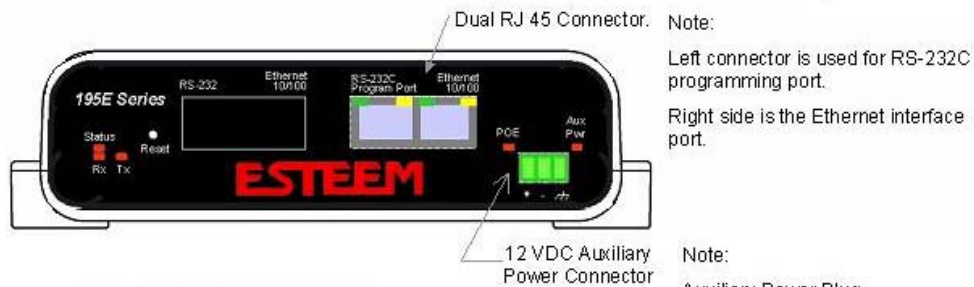
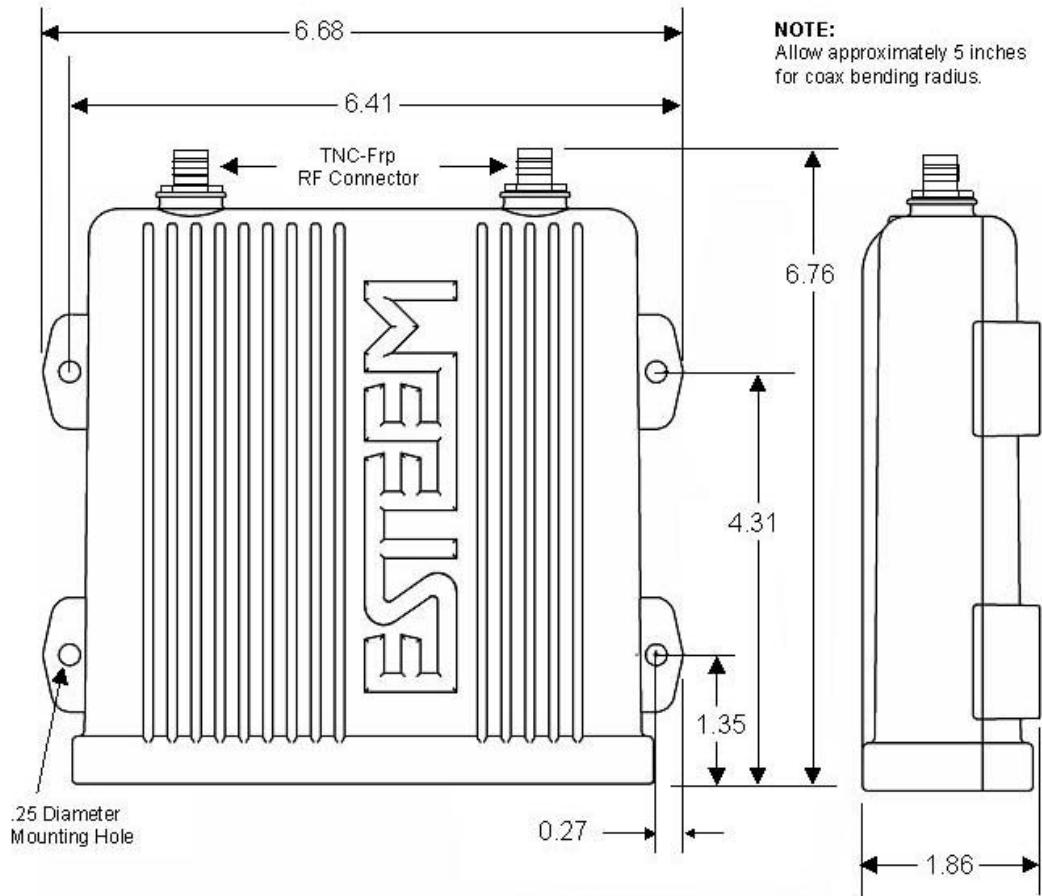
Power	
Power Connector on Unit	10 to 16 VDC
Receive	320 ma @ 12 VDC
Transmit	1500 ma @ 12 VDC

Case	
Dimensions	1.9 in. H x 6.7 in. W x 6.2 in. L
Weight	1.25 lbs.
Outdoor Pole Mounting Kit	Optional, EST P/N 195PM

Other	
Warranty	1 Year
Temperature Range	-30° to +60° C
Humidity	95% Non-condensing
FCC Type Acceptance	Pending Type Acceptance

Specifications Subject to Change Without Notice

Model 195Eg Case Specifications



Note: All dimensions are in inches.

Antenna Specifications

Model No:	AA191Ep
Antenna Type:	Omni-Directional, Vehicle Mount
Applications:	Mobile
Frequency:	4.9-5.0 GHz
Polarization:	Vertical
Impedance:	50 ohms
Gain:	5.5 dBi
VSWR:	< 1.5
Front to Back Ratio:	n/a
Horizontal Beamwidth:	n/a
Vertical Beamwidth:	n/a
Antenna Material:	Black Radome
Mounting Hardware:	Base Included
Antenna Connector:	TNC-R Male
Antenna Envelope:	12 in. length by 1.75 in width
Weight:	.08 lbs.

Caution

Omni-directional antenna should not be located within 20 cm of personnel.

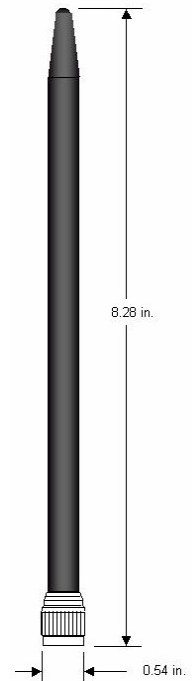


Model AA191Ep

Model:	AA20DMEp
Applications:	Model 195Ep direct case mount
Antenna Type:	Omni-Directional, Sleeve dipole
Frequency:	4.9-5.0 GHz
Polarization:	Vertical
Impedance:	50 ohms
Gain:	5.5 dBi (3.5 dBd)
VSWR:	< 2:1
Power:	10 W
Front To Back Ratio:	n/a
Horizontal Beamwidth:	n/a
Vertical Beamwidth:	n/a
Antenna Material:	Polyurethane Plastic Radome
Recommended Mounting Hardware:	n/a
Antenna Connector:	TNC-R Male
Flexibility:	+/- 20 °
Antenna Envelope:	8.28 in. length by .54 in. width
Temperature:	-40 to +70 C°
Weight:	33 grams

Caution

Omni-directional antenna should not be located within 20 cm of personnel.



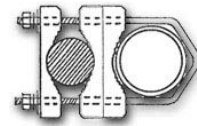
Model AA20DMEp

Antenna Specifications

Model No:	AA20Ep
Antenna Type:	Omni Directional, DC Grounded
Applications:	Fixed base
Frequency:	4.9-5.0 GHz
Polarization:	Vertical
Impedance:	50 ohms
Gain:	9 dBi (7dBd)
VSWR:	1.2:1 Typical
Front to Back Ratio:	n/a
Horizontal Beamwidth:	n/a
Vertical Beamwidth:	40 degrees @ 1/2 power
Antenna Material:	Brass radiator, UV inhibited fiberglass enclosed
Mounting Hardware:	Base to Mast, Supplied.
Antenna Connector:	TNC-R Male with 36in. pig-tail.
Antenna Envelope:	12 in. length by 1 in. diameter
Weight:	1.5 lbs.

Caution

To comply with the FCC exposure compliance requirements, a separation distance of at least 20 cm must be maintained between the antenna and all persons.



Mounting Bracket



Model AA20Ep

Antenna Specifications

Model No:	AA203Ep
Antenna Type:	Directional, DC grounded
Applications:	Fixed base.
Frequency:	4.9-5.0 GHz
Polarization:	Vertical or Horizontal
Impedance:	50 ohms
Gain:	9 dBi (7 dBd)
VSWR:	< 1.5
Front to Back Ratio:	23 dB
Horizontal Beamwidth:	55 degrees @ ½ power
Vertical Beamwidth:	55 degrees @ ½ power
Antenna Material:	Sealed in UV stable fiberglass enclosed radome
Mounting Hardware:	Stainless steel U bolts (included) for mounting up to 1 5/8 in. diameter pipe.
Antenna Connector:	TNC-R Male with 36in. pig tail
Maximum Power Input:	5 Watts
Antenna Envelope:	4.5 in. length by 3 in. diameter
Windload (RWV):	125 mph
Lateral Thrust at Rated Wind:	5.8 lbs.
Wind Surface Area:	0.060 ft ²
Weight:	1 lbs.

Caution

To comply with the FCC exposure compliance requirements, a separation distance of at least 20 cm must be maintained between the antenna and all persons.



Model AA203Ep

Antenna Specifications

Model No:	AA204Ep
Applications:	Fixed base mounting
Antenna Type:	2.4 GHz ISM, Directional, DC Grounded, Parabolic Grid
Frequency:	4.9-5.0 GHz
Polarization:	Vertical or Horizontal
Impedance:	50 ohms
Gain:	26 dBi (24 dBd) nominal
VSWR:	< 1.5:1 nominal
Front to Back Ratio:	>24 dB
Horizontal Beamwidth:	16 degrees @ ½ power
Vertical Beamwidth:	11 degrees @ ½ power
Antenna Material:	Zinc plated cold rolled steel with polyester power coat finish
Recommended Mounting Hardware:	Standard U-bolt steel mast clamp complete with mounting hardware. Designed for masts of up to 2.5 in. O.D.
Antenna Connector:	TNC-R Male with 36 in. pig-tail
Maximum Power Input:	10 Watts
Wind Survival:	100 mph
Wind Load:	16 mph
Antenna Envelope:	34 in. length by 17 in. width by 11 in. height
Weight:	3 lbs.

Caution

To comply with the FCC exposure compliance requirements, a separation distance of at least 50 cm must be maintained between the antenna and all persons.



Model AA204Eg