



Tactical Support Equipment
www.tserecon.com

Elevated Multi-Band Antenna and Mast (4 to 6 Radio)

The **TSE-ANT-EMB-MST-46** is a tactical 4 to 6 Radio, single-port Antenna with Mast that covers 30-88 MHz, 225-450 MHz and 1200-2600 MHz. It is a one piece tactical antenna designed for use with all modern in service radios covering the band from 30-88 and 225-450 MHz and includes modern radios in the 1200-2600 MHz band. The extra ports covering the modern SRW, ANW2, TSM-X, Wave Relay and Silvus waveforms allows for a full network centric system. Simultaneous transmit and receive.

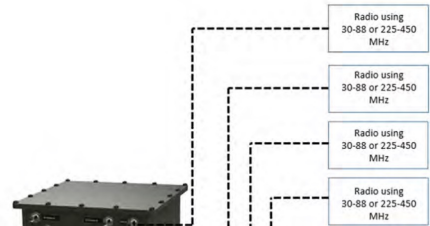
The modern design gives improved gain and radiation characteristics across the full frequency range. For urgent use or stealth requirements, the antenna can also be sat on the ground with only the tripod support, without the mast.

Includes a Triplexer and a Passive Antenna Combiner to allow operators to use multiple carrier frequencies onto a single run of coax, resulting in reduced cost, lower wind-loads and reduced weight. The antenna is the easiest and quickest antenna of this type to mount. All the parts needed to erect a high gain tactical antenna are supplied in the transit bag.



Four radio communication ports from one elevated antenna:
4 x VHF/UHF (30-88 or 225-450 MHz)
* Simultaneous transmit or receive

4 Radio Configuration

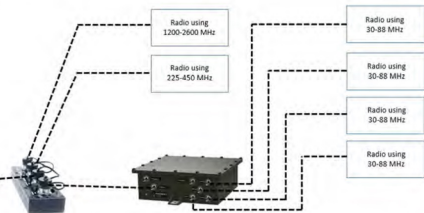


Drawing not to scale



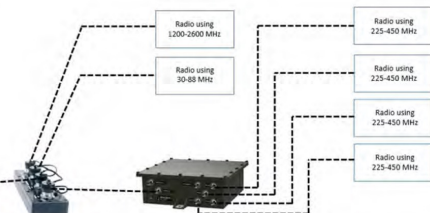
Six radio communication ports from one elevated antenna:
4 x VHF (30-88 MHz)
1 x UHF (225-450 MHz)
1 x L S Band (1200-2600 MHz)
* Simultaneous transmit or receive

6 Radio Configuration



Six radio communication ports from one elevated antenna:
1 x VHF (30-88 MHz)
4 x UHF (225-450 MHz)
1 x L S Band (1200-2600 MHz)
* Simultaneous transmit or receive

6 Radio Configuration



Part #: TSE-ANT-EMB-MST-46

Features

- Triplexer to reduce Cabling and Weight
- Easy to Erect in less than 10 mins
- 1-Year Warranty
- Simultaneous Transmit and Receive
- Replaces the COM201B & OE-254
- One antenna handles three Bands

Tactical Support Equipment Inc.
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www.tserecon.com

For More Information
Contact sales@tserecon.com

Phone: 800.889.4030
Phone: 910.425.3360
Fax: 910.425.3361

Specifications (TSE-ANT-EMB-MST-46):

Antennas and Tripod Assembly

Frequency Range:	VHF: 30-88 MHz	UHF: 225-450 MHz	L-S Band: 1200-2600 MHz
VSWR:	VHF: < 3.5	UHF: < 3.0	L-S Band: < 3.0
Nominal Impedance:	50Ω		
Power Rating:	VHF: 75W	UHF: 75W	L-S Band: 50W
Radiation Pattern:	Omnidirectional within ±2dB		
Polarization:	Vertical		
Connector:	N Type Female		
Design:	VHF monopole, UHF dipole, L-S band dipole elements. Radiating elements completely enclosed in epoxy/fiberglass laminate. Metal parts are brass, aluminum and stainless steel.		
Height	10ft. (3.1m) – Antenna + Tripod		
Weight	Whip: 3.1 lbs. (1.4 kg), Tripod: 8.3 lbs. (3.8 kg)		
Temperature Range	-55°C to +71°C (-67°F to +160°F)		

Mast

Mast Sections:	Fiberglass tube outside diameter Ø1.75in (Ø44.5mm), 52in (132cm) long. Green, Tan or Black paint finish
Guy:	4 x Upper and 4 x Middle, 1/8 in braided line on winder with adjustable lock/snap hooks each end
Guy Pegs:	5 pcs powder coated steel
Base Support:	Baseplate
Wind Speed (Max):	60 mph (96 km/h), including gust
Weight:	32.7 lbs. (14.9 kg)
Temperature Range	-55°C to +55°C (-67°F to +131°F)



Passive Antenna Combiner
(Allows four radio/frequency bands to be connected to a single antenna port.)

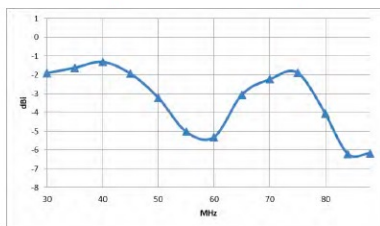
Frequencies:
30-88 or 225-450 MHz



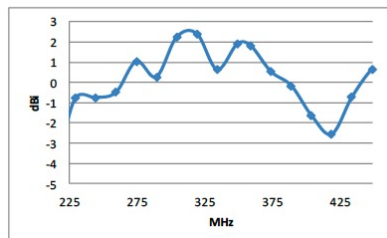
Triplexer
(Combines three radio/frequency bands into a single antenna port.)

Frequencies:
30-88 or 225-450 or 1200-2600 MHz

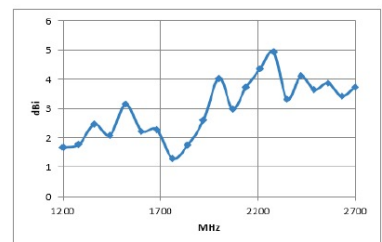
VHF gain, dB rel. 1/4 wave resonant whip.



UHF gain, dBi



L-S band gain, dBi



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