

Elevated tri-band antenna, tripod and sectional mast assembly kit

Application

This tactical antenna/mast system is an improved direct replacement for antennas such as the OE-254/GRC and other equivalents.

The VHF302000TB is a tri-band three-port antenna. 30-88 MHz, 225-450 MHz and 1200 to 2000 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. The extra port covering the modern SRW waveform allows for future upgrades to a full network centric system.

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.

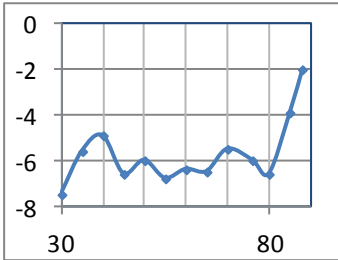
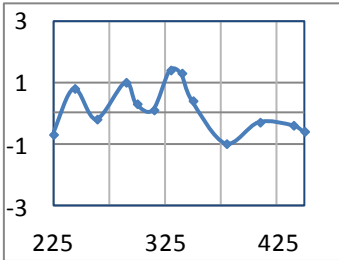
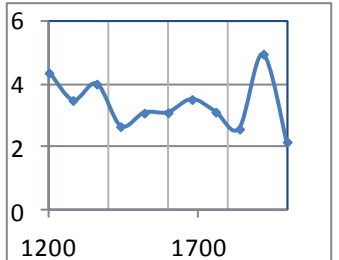
The antenna is the easiest and quickest antenna of this type to mount. All the parts needed to erect a high gain tactical antenna are supplied in the transit bag.

The system comprises a tripod assembly which interfaces a mast (AMX85) to an antenna (VHF302000TB). The required cables, etc. are also supplied as listed.

If required, the AMX85 mast support can be clamped to a vehicle and be used without the guy wires. The mast sections may be used at random and any number of sections can be used depending on the height required for good communications. The mast design is robust and resistant to icing conditions as well as salt mist and sand.



Specification - Antenna

Frequency range	VHF: 30-88MHz	UHF: 225-450MHz	L-band: 1200-2700MHz
VSWR	VHF: < 3.5	UHF: < 3.0	L-band: < 3.0
Port-to-port isolation	> 40dB between bands		
Nominal impedance	50Ω		
Power rating	VHF: 75W	UHF: 75W	L-Band: 50W
Radiation pattern	Omnidirectional within ±2dB		
Polarization	Vertical		
Connector	VHF: BNC	UHF: BNC	L-band: SMA
Gain	 <p>VHF gain, dB rel. 1/4 wave resonant whip in centre of 3x3m ground plane</p>	 <p>UHF gain, dBi</p>	 <p>L-band gain, dBi</p>

Specification - Mast

Mast Sections	7 pcs fiberglass tube with green paint finish
Guys	4 pcs, braided line on winder, adjustable lock/snap hooks each end
Guy Pegs	6 pcs hot galvanized steel
Base Support	Fiberglass with spikes
Top Load	Accepts antenna plus tripod
Height	~27 ft (8.5 m)
Weight	35.5 lbs (16.2 kg) including all accessories

Specification - Tripod

Tripod	With three legs, mast adapter and antenna adapter
Tripod to radio cables	2 pcs, 40 ft coaxial cables 2 pcs, 5 ft coaxial flexible jumper cables

