L3HARRIS®
FAST. FORWARD.

RF-3193EX-AT420 / RF-3193EX-AT424
RF-3193EX-AT520 / RF-3193EX-AT524

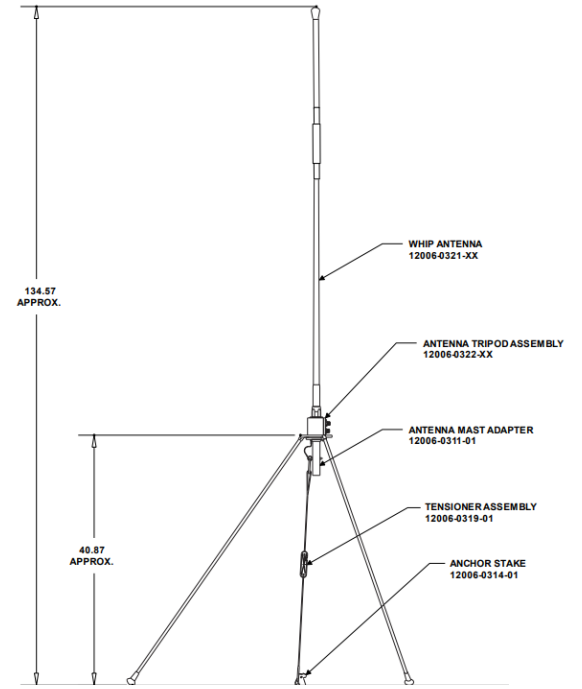
Tactical Mast Antenna Set, 30-512, 670-2600 MHz

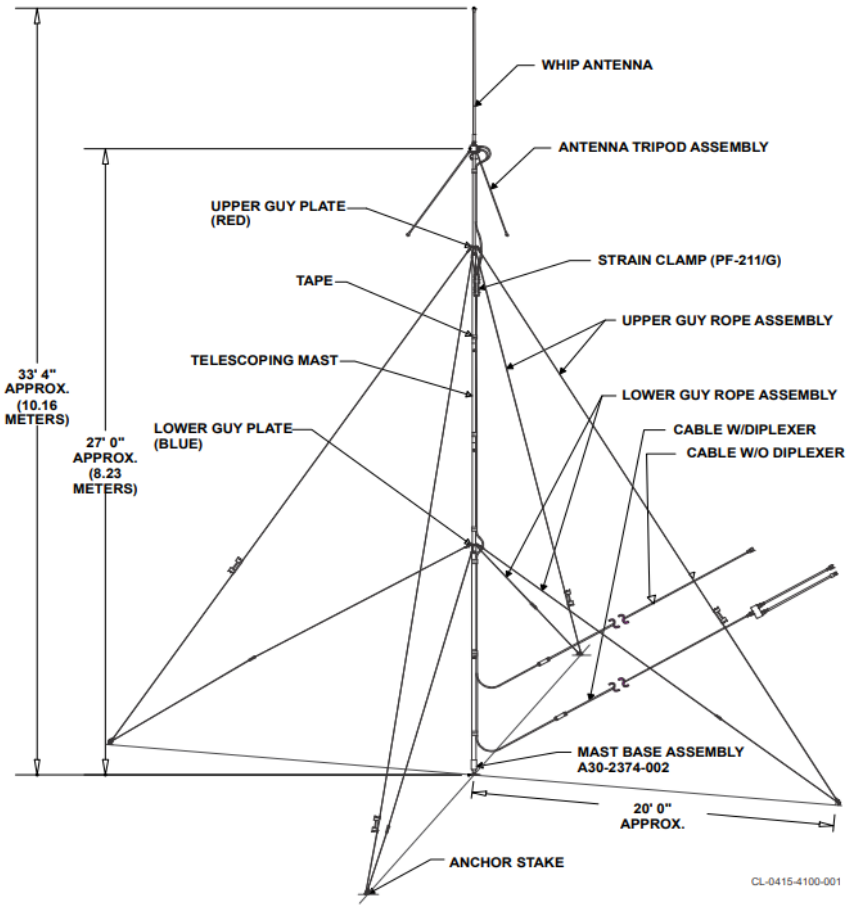
ELECTRICAL	
Frequency Range	30-512, 670-2600 MHz
Polarization	Linearly polarized
Impedance	50 ohm (nominal)
VSWR	Not exceeding 3.5:1; <3.0:1 typical
Gain	VHF > -7 dBi; UHF / L-band / S-Band > -2 dBi
Power Rating	100 watts
Radiation Pattern	Omni-directional in azimuth (0° elevation)
RF Connector	N connector (adapters and cabling included)

MECHANICAL	
Dimensions	7.8 ft x 1.66 in. (antenna only)
Height	11.25 ft (3.4 m) (antenna with tripod)
Antenna Weight	52 lbs (23.6 kg)
Color/Finish	Black (tripod and mast); green or tan (antenna whip)
Wind Rating	62 km/hr
Mounting	Tripod with ground spike, or mast mount

ENVIRONMENTAL	
High Temperature	Operational: MIL-STD-810: Method 501.5, Procedure II, 160° F (71° C)
Low Temperature	Operational: MIL-STD-810: Method 502.5, Procedure II, -40° F (-40° C)
Temperature Shock	MIL-STD-810: Method 503.5, Procedure I, 160° F (71° C) to -40° F (-40° C)
Altitude	MIL-STD-810: Method 500.5, Procedure II 15,000 ft. (12,192 m)
Solar Radiation	MIL-STD-810: Method 500.5, Procedure I
Humidity	MIL-STD-810 Method 507.5
Rain	MIL-STD-810 Method 506.5, Procedure I
Icing/Freezing	MIL-STD-810 Method 521.3, Procedure I
Sand and Dust	MIL-STD-810 Method 510.5, Procedure I & II
Salt Fog	MIL-STD 810: Method 509.5, 24 h spray

The RF-3193EX is the next generation of transportable antenna with improved gains and better radiation patterns than its successors. When compared to the current RF-3193TB antenna, the RF-3193EX antenna gain is improved by at least 2 dB across 30-2000 MHz band and extends the ability to utilize the high bands from 2000-2600 MHz. Each antenna comes with an improved tripod base offering much sturdier support when the antenna is utilized in tripod mode. The RF-3193EX-AT420 and 424 offer an improved antenna mast for a secure installation in the mast configuration. Overall, the RF-3193EX series of antennas has the capability to operate with the newest L3Harris radios from 30-2600 MHz in order to experience the full range and capabilities of our radios with improved antenna performance.





Transportable, Deployable broadband VHF/UHF/L-band, Tripod and Mast mounted antenna systems. Depending on the configuration, it shall be deployable on top of a 27 ft telescoping mast or on the ground standing on its tripod base.

The entire system will stow in a single bag with the ability to store 80ft of LMR-400UF transmission cable (antenna to radio equipment). A frequency selective diplexer and associated transmission cables are included to facilitate connection to the radio equipment. The Mast version of the antenna shall include all components necessary for full assemble and erection (Mast and ground deployment).

The following identifies the model number scheme for ordering the antenna.

RF-3193EX-ATx2y, where:

x = 4 or 5 designates mast or tripod only

> **4** comes with a mast and tripod

> **5** comes with a tripod only

y = 0 or 4 designates antenna whip color

> **0** is green

> **4** is tan

RF-3193EX-AT420 TACT MAST ANT SET, 30-512, 670-2600MHZ, GREEN

RF-3193EX-AT424 TACT MAST ANT SET, 30-512, 670-2600MHZ, TAN

RF-3193EX-AT520 TACT TRIPOD ANT SET, 30-512, 670-2600MHZ, GREEN

RF-3193EX-AT524 TACT TRIPOD ANT SET, 30-512, 670-2600MHZ, TAN

RF-3193EX-AT420 / RF-3193EX-AT424 / RF-3193EX-AT520 / RF-3193EX-AT524
Tactical Mast Antenna Set, 30-512, 670-2600 MHZ

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