



21-150-200
Fast Tune
VHF/UHF Antenna
30 - 512 MHz

FEATURES

- Radio silent tuning within typically 60µS
- Only 9.5 inches (240mm) height
- Latest FPGA logic converter unit technology
- Can accept both VHF/UHF and EPLRS radio inputs (via diplexer)
- Rugged design has no forward facing projections for ground handling and in-flight safety
- Designed for helicopters and subsonic fixed wing aircraft to MIL-STD-810 environmental conditions
- EMI/EMC design to MIL-STD-461
- -54° to +75°C operating (Antenna)
-40° to +75° operating (LCU)
- Footprint and fixing compatible with AS3191



21-151 series Logic Converter Unit

The 21-150-200 is the latest in a series of high gain, digitally tuned VHF/UHF antennas providing outstanding performance in a physically small package of just 9.5 inches (241mm) height. This antenna has the additional benefit of having the same footprint size and fixings as AS3191. Latest p-i-n diode tuning technology for VHF band combined with a passive susceptance corrected element for the UHF band provides capability for use with both multiband VHF/UHF radios and when used with external diplexer type 21-80-25, UHF EPLRS radios working in the 420 - 450 MHz frequency range. A separate, lightweight logic converter unit (LCU) accepts data from the VHF/UHF radio, and using latest FPGA technology, provides tuning codes for the antenna. Tuning time, which is 100% radio silent, is typically 60µ second.

Cooper Antennas Ltd for non-USA customers
Thames Industrial Estate, Unit K, Fieldhouse Lane,
Buckinghamshire SL7 1TB, UK
Tel: +44 (0) 1628 482 360
Email: sales@cooperantennas.com
www.cooperantennas.com



Australian Representatives
ROJONE, PTY LTD.
Tel: 02 9829 1555
E: sales@rojone.com.au
www.rojone.com.au

SPECIFICATIONS

Cooper Antennas Model 21-150-200

Fast Tune VHF/UHF Antenna

ELECTRICAL

Frequency	30-88 MHz 108-174 MHz 225-512 MHz
Gain (typical)	≥ -12 dBi (30 MHz) ≥ -6 dBi (88 MHz) ≥ -3 dBi average (118-174 MHz) ≥ +2 dBi average (225-512 MHz)
VSWR	≤ 2.5:1
Impedance (nominal)	50 Ohms
Power	50 Watts UHF 25 Watts VHF
Tuning Time	Less than 60μ seconds
Polarization (nominal)	Vertical (when vertically mounted)
Antenna RF Connector	TNC Female
Antenna DC Connector	Multi pin PTO 12-10P to MIL-C-26482

MECHANICAL

Height	9.5 inches (241mm)
Weight	Antenna 3.5 lbs (1.59kg) Logic Unit 1.65 lbs (0.75kg)
Fixing Holes	6 x Ø 0.208 inch holes for 10:32 UNF holes or similar
Temperature	-54° to +80° C (Operating) Antenna -54° to +80° C (Non operating) LCU -40° to +80° C (Operating) LCU
Operating Speed	Up to Mach 0.85

FINISH

Antenna	Urethane Lusterless Black
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Other finish options are available. Please specify finish required when ordering.

Note: Cooper Antennas Ltd has a policy of continuous product improvement and data herein is therefore subject to change.
Please check with Cooper Antennas Ltd that this data sheet is at latest issue before initiating contract activity.