



21-150-201
Fast Tune
VHF/UHF/L-Band Antenna
30 - 530 & 960 - 1220 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)
- Covers JTIDS, MIDS, IFF, TACAN
- 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
- -54° to +55°C (operating)
- -54° to +71°C (short term)



21-151 series Logic Converter Unit

The 21-150-201 is the latest in a series of high gain, digitally tuned VHF/UHF/L-Band antennas providing outstanding performance in a physically small package of just 9.5 inches (241mm) height. 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. L-Band performance is provided by a folded monopole couplet, isolated from the V/UHF element. 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.

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SPECIFICATIONS

Cooper Antennas Model 21-150-201 Fast Tune VHF/UHF Antenna

ELECTRICAL

Frequency	30-88 MHz, 108-174 MHz 225-530 MHz, 960-1220 MHz
Gain (typical)	≥ -12 dBi (30 MHz) ≥ -4 dBi (88 MHz) ≥ -3 dBi average (118-174 MHz) ≥ +1 dBi average (225-530 MHz) ≥ +2 dBi average (960-1220 MHz)
VSWR	≤ 2.5:1 VHF/UHF ≤ 2:1 L-Band
Impedance (nominal)	50 Ohms
Power	50 Watts CW UHF 25 Watts CW VHF 1.5 kW peak, 100 watts average L-Band
Tuning Time	Less than 60μ seconds
Polarization (nominal)	Vertical (when vertically mounted)
Antenna RF Connector	TNC Female V/UHF N-type Female L-Band
Antenna DC Connector	Multi pin PTO 12-10P to MIL-C-26482
LCU part number	21-151-201 (ARC210 or ARC231)

MECHANICAL

Height	9.5 inches (241mm)
Weight	Antenna 4 lbs (1.81kg)
Fixing Holes	10 x Ø 0.208 inch holes for 10:32 UNF holes or similar
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.