

URC-300[®] Transceiver Line-of-Sight Antennas

Family of multi-use, multi-choice antennas



URC-300 Transceiver Antenna Applications

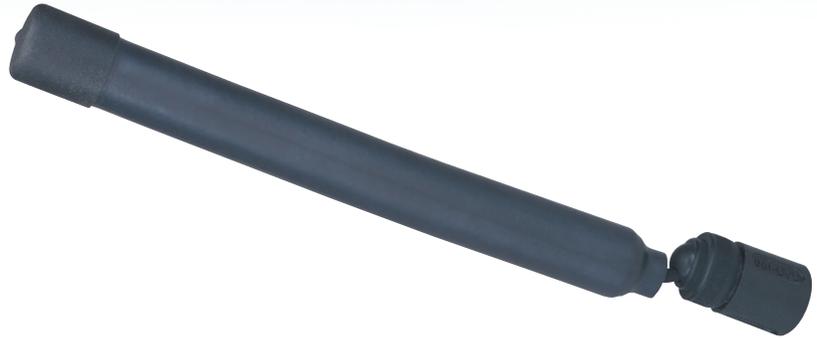
No matter what the operation, manpack, fixed site, or mobile, General Dynamics offers a full array of line-of-sight antennas and accessories that fully support the URC-300 Transceiver for every application. Our family of URC-300 antennas and accessories include whips, dual-band, tri-band, and spring-loaded designs. At General Dynamics, we make it our mission to provide you with the tools, the flexibility, and the dependability you need for your mission, anywhere, anytime.

- UVU-100 — Dual-band manpack antenna
- UVU-100S — Dual-band spring-loaded mobile antenna
- UVU 120 — Tri-band manpack antenna
- UVU 120S — Tri-band spring-loaded mobile antenna
- UVU-130 — Dual-band mobile or base station antenna and mount
- UVU 140 — Tri-band antenna
- UVU-200 — Dual-band base station antenna
- UVU-210 — Tri-band base station antenna
- UVU-220 — Tri-band base station antenna
- AMB-100 — Mobile Roof Mount Antenna Mounting Bracket
- AMB-110 — Mobile Magnetic Antenna Mounting Bracket
- AMB-120 — Antenna Mounting Bracket; adapts the NATO base antennas. Stainless steel, antenna pole mounting bracket with U-clamps
- AMB-200 — Antenna Mounting Bracket; adapts the NATO base antennas. Stainless steel, antenna pole mounting bracket with U-clamps

URC-300 Transceiver Line-of-Sight Antennas

UVU-100 Dual-band manpack antenna for backpack configuration

- **Part Number:** 85-P35988M001
- **Frequency:** VHF: 115 to 174 MHz
UHF: 225 to 400 MHz
- **Band:** VHF/UHF
- **Gain:** 2.5 dBi @ 250 MHz
- **VSWR:** 2.5:1 or less
- **Power:** 30 Watts maximum
- **Impedance:** 50 Ω (nominal)
- **Polarization:** Vertical
- **Pattern:** Omni-directional
- **Height:** 14 inches (overall)
- **Weight:** One pound maximum
- **Connector:** Collar PSC-5 male
- **Mounting:** A threaded sleeve on the connector secures the antenna to a URC-300 antenna mounting bracket
- **Optional Accessories:** AMB-100 and AMB-110 mobile antenna mounting brackets



UVU-100S Dual-band spring-loaded mobile antenna

- **Part Number:** 85-P39217N001
- **Frequency:** VHF: 115 to 174 MHz
UHF: 225 to 400 MHz
- **Band:** VHF/UHF
- **Gain:** Unity
- **VSWR:** 2.5:1 or less
- **Power:** 30 Watts maximum
- **Impedance:** 50 Ω (nominal)
- **Polarization:** Vertical
- **Pattern:** Omni-directional
- **Height:** 14 inches
- **Weight:** One pound maximum
- **Connector:** Collar PSC-5 male
- **Mounting:** A threaded sleeve on the connector secures the antenna to a URC-300 antenna mounting bracket
- **Optional Accessories:** AMB-100 and AMB-110 mobile antenna mounting brackets



UVU-120 Tri-band manpack antenna for backpack configuration

- **Part Number:** 85-P58719R
- **Frequency:** 30 – 512 MHz
- **Band:** LHF/VHF/UHF
- **Gain:** -30 dBi Peak @ 30 MHz
- 2 dBi @ 125-512 MHz
0 dBi @ 225-400 MHz
- **VSWR:** <2.25:1 Typical
2.5:1 Maximum 2.5:1
- **Power:** 35 Watts
- **Impedance:** 50 Ω (nominal)
- **Polarization:** Vertical
- **Pattern:** Omni-directional
- **Height:** 14.5 inches
- **Weight:** 1 pound
- **Connector:** Collar PSC-5 male
- **Mounting:** A threaded sleeve on the connector secures the antenna to a URC-300 antenna mounting bracket
- **Optional Accessories:** AMB-100 and AMB-110 mobile antenna mounting brackets



URC-300 Transceiver Line-of-Sight Antennas

UVU-120S Tri-band mobile antenna

- **Part Number:** 85-P58722R
- **Frequency:** 30 – 512 MHz
- **Band:** LHF/VHF/UHF
- **Gain:** -30 dBi Peak @ 30 MHz
-2 dBi @ 125-512 MHz
0 dBi @ 225-400 MHz
- **VSWR:** <2.25:1 Typical
2.5:1 Maximum
- **Power:** 35 Watts
- **Impedance:** 50 Ω (nominal)
- **Polarization:** Vertical
- **Pattern:** Omni-directional
- **Height:** 17.5 inches
- **Weight:** 1.5 pounds
- **Connector:** Collar PSC-5 male
- **Mounting:** A threaded sleeve on the connector secures the antenna to a URC-300 antenna mounting bracket
- **Optional Accessories:** AMB-100 and AMB-110 mobile antenna mounting brackets



UVU-130 Dual-band mobile or base station antenna and mount

- **Part Number:** 01-P35858M001-C3
- **Frequency:** VHF: 115 to 174 MHz
UHF: 225 to 400 MHz
- **Band:** VHF/UHF
- **Gain:** 2.5 dBi (compared to a 1/4 wave monopole) – High Gain
- **VSWR:** 2.5:1 or less
- **Power:** 50 Watts CW and PEP
- **Impedance:** 50 Ω (nominal)
- **Polarization:** Vertical
- **Pattern:** Omni-directional
- **Height:** 39 inches
- **Weight:** 7 pounds, 14 ounces
- **Connector:** Type N female
- **Mounting:** Universal adjustable flange mount
- **Optional Accessories:** For Base Station Applications: URF-B61-LLL Helix Antenna Cable Set, part number 30P37421K011LLL (Note: “LLL” = length of cable in feet)
For Vehicular Applications: URF-V61-LLL Helix Antenna Cable Set, part number 30P37421K021LLL (Note: “LLL” = length of cable in feet)



UVU-140 Tri-band spring loaded mobile antenna

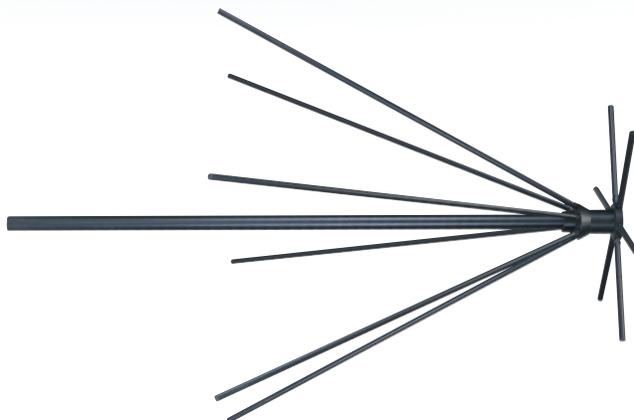
- **Part Number:** 85-P58720R
- **Frequency:** 30 – 512 MHz
- **Band:** LHF/VHF/UHF
- **Gain:** -15 dBi @ 30 MHz; -2 dBi @ 88 MHz
5 dBi @ 116 MHz; 3 dBi @ 512 MHz
- **VSWR:** 3.5:1 Max @ 30-90 MHz
2.5:1 Max @ 155-512 MHz
- **Power:** 50 Watts
- **Impedance:** 50 Ω (nominal)
- **Polarization:** Vertical
- **Pattern:** Omni-directional
- **Height:** 40 inches
- **Weight:** 8 pounds
- **Connector:** Type N Female
- **Mounting:** NATO Standard Four .5” Holes, equally spaced on a 4.5” Dia. BHC
- **Optional Accessories:** AMB-120 NATO antenna mounting bracket



URC-300 Transceiver Line-of-Sight Antennas

UVU-200 Dual-band base station antenna

- **Part Number:** 85-P35990M001
- **Frequency:** VHF: 113 to 174 MHz
UHF: 225 to 420 MHz
- **Band:** VHF/UHF
- **Gain:** Unity to +2.5 dBi (nominal)
- **VSWR:** 2.5:1 or less
- **Power:** 250 Watts CW and PEP
- **Impedance:** 50 Ω (nominal)
- **Polarization:** Vertical
- **Pattern:** Omni-directional
- **Height:** 54 inches (cone diameter: 36 inches)
- **Weight:** 7 pounds
- **Connector:** Type N Female
- **Mounting:** Antenna mast diameter = 1.25 inches
- **Wind load:** 115 mph; with 1/2" radial ice: 80 mph
- **Optional Accessories:** For Base Station Applications: URF-B61-LLL Helix Antenna Cable Set, part number 30P37421K011LLL (Note: "LLL" = length of cable in feet)
AMB-200 pole mount antenna mounting bracket with U-clamps



UVU-210 Tri-band base station antenna

- **Part Number:** 85-P58721R
- **Frequency:** 30-512 MHz
- **Band:** LVHF/VHF/UHF
- **Gain:** -15 dBi @ 30 MHz; -2 dBi @ 88 MHz
5 dBi @ 116 MHz; 3 dBi @ 512 MHz
- **VSWR:** 3.5:1 Max @ 30-90 MHz
2.5:1 Max @ 155-512 MHz
- **Power:** 50 Watts
- **Impedance:** 50 Ω (nominal)
- **Polarization:** Vertical
- **Pattern:** Omni-directional
- **Height:** 40 inches
- **Weight:** 8 pounds
- **Connector:** Type N female
- **Mounting:** NATO Standard Four .5" Holes, equally spaced on a 4.5" Dia. BHC
- **Optional Accessories:** For Base Station Applications: URF-B61-LLL Helix Antenna Cable Set, part number 30P37421K011LLL (Note: "LLL" = length of cable in feet)
AMB-120 NATO mount antenna mounting bracket



UVU-220 Tri-band base station antenna

- **Part Number:** 85-P58721R
- **Frequency:** 30 – 512 MHz
- **Band:** LVHF/VHF/UHF
- **Gain:** -6 dBi @ 30 MHz; 2dBi @ 88 MHz
5 dBi @ 116 MHz; 3 dBi @ 512 MHz
- **VSWR:** <3.5:1 Max (Except at Crossover Band)
- **Power:** 50 Watts
- **Impedance:** 50 Ω (nominal)
- **Polarization:** Vertical
- **Pattern:** Omni-directional
- **Height:** 92 inches
- **Weight:** 8 pounds
- **Connector:** Type N Female
- **Mounting:** NATO Standard Four .5" Holes, equally spaced on a 4.5" Dia. BHC
- **Optional Accessories:** For Base Station Applications: URF-B61-LLL Helix Antenna Cable Set, part number 30P37421K011LLL (Note: "LLL" = length of cable in feet)
AMB-120 NATO mount antenna mounting bracket



URC-300 Transceiver Line-of-Sight Antennas

AMB-100 Mobile Roof Mount Antenna Mounting Bracket

- **Part Number:** US00300049-001
- **Description:** The Roof Mount is a flush mounted base the only requires a 5/8" drill hole for easy mounting. The mount comes with a(n) external tooth lock washer and hex nut and 17' of unterminated RG-58 coax
- **Overall Height:** 3 inches
- **Overall Diameter:** 3 inches
- **Coax Length:** 17 feet
- **Color:** Black
- **Connector:** Collar PSC-5 female



AMB-110 Mobile Magnetic Antenna Mounting Bracket

- **Part Number:** US00300050-001
- **Description:** The Magnetic Mount is a rugged vehicular mount that consists of a 4.5" (113.4 mm) heavy duty magnet and multiple options for the antenna connector, cable connector, and cable length
- **Overall Height:** 10 inches
- **Overall Diameter:** 4.63 inches
- **Coax Length:** 17 feet
- **Color:** Black
- **Cable Connector:** BNC
- **Antenna Connector:** Collar PSC-5 female



AMB-120 Antenna Mounting Bracket

- **Part Number:** US00300051-001
- **Description:** Antenna Mounting Bracket; adapts the NATO base antennas to the top of a twist lock mast. Intended for use with the UVU-140 or UVU-210, and UVU-220 antennas
- **Overall Height:** 10.5 inches
- **Overall Diameter:** 5.5 inches
- **Coax Length:** 17 feet
- **Color:** Black



AMB-200 Antenna Mounting Bracket

- **Part Number:** US00300056-001
- **Description:** Antenna Mounting Bracket; Stainless steel, antenna pole mounting bracket with U-clamps that mount to a 1.5" to 2" mast. Intended for use with the UVU-200 antenna.
- **Overall Height:** 10 inches
- **Overall Diameter:** 4.63 inches
- **Coax Length:** 17 feet
- **Color:** Black



GENERAL DYNAMICS

Mission Systems

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