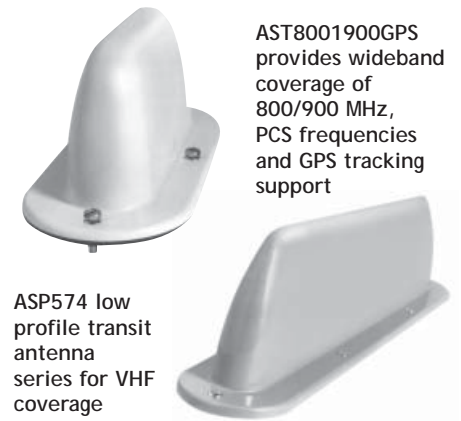


Silhouette Transit Antennas

The silhouette antennas are designed for transit vehicle installations requiring overhead clearance, including buses, fire-fighting engines, railroad equipment, airport service vehicles, and construction equipment. These low profile multi-band antennas provide wideband coverage of specific frequencies without field tuning required.* They are housed in a high impact molded ASA radome for long-lasting performance under severe environmental conditions. A GPS multi-band model is also available.

Features

- Rugged - high impact molded ASA radome assures long, reliable performance and protection against the elements
- High Performance - when mounted on a flat surface, maximum radiation is vertical and omnidirectional
- Disguised Appearance - low profile for minimum exposure to theft or vandalism
- Wideband Coverage - requires no field tuning*
- GPS Tracking Support Capability - model AST800/1900GPS only



Antenna Electrical Specifications

Model	Frequency Range	Bandwidth**	Gain
ASPB574**	148-160 MHz	0.5 MHz	Unity
ASPC574**	160-174 MHz	0.5 MHz	Unity
ASP572	450-470 MHz	20 MHz	Unity
ASP772	450-470 MHz	20 MHz	Unity
→ ASPB572	470-488 MHz	18 MHz	Unity
ASPC572	488-512 MHz	24 MHz	Unity
ASP764	764-806 MHz	42 MHz	Unity
ASP931	806-894 MHz	88 MHz	Unity
AST8001900GPS	806-960 MHz and 1850-1990 MHz 1575.42 +/-10 MHz (GPS L1)	154 MHz/ 140 MHz	Unity (800/900 MHz and 1850-1990 MHz) 3.5 dBic Nominal (GPS)
ASPG931	890-960 MHz	154 MHz	Unity



Technical Data

Maximum Power: 25 watts (AST8001900GPS) 100 watts (all other models)
Polarization: Vertical Right hand circular (GPS L1 frequencies)
Nominal Impedance: 50 ohms
VSWR: < 1.5:1 (GPS L1 frequencies) < 2.0:1, maximum
Radome Material: White, high impact molded ASA
Cable: Sold separately. Call factory for cable assembly options. Model AST8001900GPS includes 17 feet RG-174U on the GPS side.
Mount Method: Standard 1-5/16" roof hole mount Supplied with screws and weather-proof gasket.

For detailed specifications, visit <http://antenna.pctel.com>.

* All models except those covering VHF frequencies

** Field Tunable within specified frequencies

Mechanical Specifications

Model	Termination	Dimensions
ASPB574**	SO-239 (UHF female, panel mount)	4.1" H x 17" L x 3.5" W
ASPC574**	SO-239 (UHF female, panel mount)	4.1" H x 17" L x 3.5" W
ASP572	UHF female, panel mount (mates with PL259 male)	3.13" H x 8" L x 3.5" W
ASP772	BNC female bulkhead	3.4" H x 8" L x 3.5" W
ASPB572	UHF female, panel mount (mates with PL259 male)	3.4" H x 8" L x 3.5" W
ASPC572	UHF female, panel mount (mates with PL259 male)	3.4" H x 8" L x 3.5" W
ASP764	N female, panel mount	3.4" H x 8" L x 3.5" W
ASP931	N female, panel mount	3.4" H x 8" L x 3.5" W
AST8001900GPS	N female, panel mount (800/1900 MHz frequencies) 17 ft RG-174/U with male SMA (GPSL1 frequencies)	3.4" H x 8" L x 3.5" W
ASPG931	N female, panel mount	3.4" H x 8" L x 3.5" W

Low Noise Amplifier Specifications (Model AST8001900GPS only)

Frequency Band	Axial Ratio	Amplifier Gain	Isolation between Antennas
1575.42 +/-10 MHz	< 3 dB @ boreside	26 dB +/-3 (across 20 MHz bandwidth)	> 65 dB active (806-960 MHz to GPS) > 60 dB active (1850-1990 MHz to GPS) > 20 dB passive (1575 MHz +/-1 MHz to GPS)

DC Current	DC Voltage	Noise Figure	Filtering	Out-of-Band Signal Rejection	P1 dB	OIP3
20 mA nominal; < 30 mA @ -40°C to +85°C	3 - 13.5 V	< 1.8:1 typical @ 25°C < 2.2:1 @ -40°C to +85°C	Hybrid (including pre-selector)	> 30 dB @ +/-50 MHz	> 5 dBm typical	14 dBm typical

* All models except those covering VHF frequencies

** Field Tunable within specified frequencies