

AR-4 GPS and GSM Dual Antenna



Features

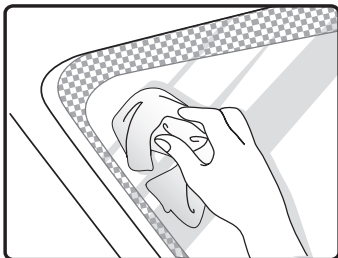
- Window mount
- Compact size
- Easy to install
- 10 watt RF protection design
- Wide power supply range and short-circuit protection
- 3 signal noise filters and 2-stage LNA
- Silver-coated conducting pin
- Double-shielding cable
- RoHS compliant

Specifications

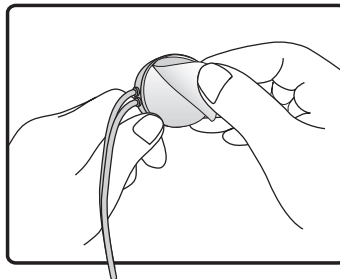
Architecture	
RF protection (10 watt)	
2 Stages active LNA (Low Noise Ampflier)	
Dual Filters, (HPF & LPF (Lump element))	
Dielectric Patch antenna	
Low Noise Low drop-out, Linear Regulator	
GPS receiver short circuit protect	
Low Loss RG/174 Coax cable	
Aluminum Base/ PC+ Radome Plastic	
Mechanical & Environmental	
Dimensions	50.10 x 16.55 mm
Weight	180 g
Color	Black
Operating Temperature	-40 to +85° C
Humidity	40% to 95% RH
Storage Environment	
Temperature	-40 to +85° C
Humidity	40% to 95% RH
Output Terminal	
Coax Cable	RG-174U double shielded 5m, Low Loss 0.7dB/m
Coax Connector	BNC SMB Fakra SMA MCX MMCX GT5 or on request
Cable Length	3M, 5M or upon request
Cable Color	Black
Electrical Specification	
Note: All value are defined at 25±15° C ,65±20 % RH unless otherwise noted.	
Note: Antenna characteristics are measured with 70x70 mm ground plane in an anechoic chamber.	

GPS ANTENNA	
Center Frequency	1575.42±1.023 MHz
Bandwidth	10 MHz @ -3dB point
Polarization	R.H.C.P
Axial Ratio	2.0 dB max
Over-Current	Thermal Over-current shutdown >+150° C
RF noise protection	RF protection(10watt), nano-second Spark-Gap
Coax Cable	RG-174U double shielded 5m, Low Loss 0.7dB/m
LNA	
Center Frequency	1575.42±1.023 MHz
Over-all Gain	28dB (typical including 4dB cable loss & Filters)
Over-all NF	<1.8dB @fo, 2dB max.
Output V.S.W.R	1.5 dB max
LNA Characteristic	K=>1 Un-conditionally Stable
Voltage	+3 Vdc to + 6 Vdc input, Auto Switching
Current	11~13mA±2
GSM ANTENNA	
Frequency	GSM: 900~1800/ 850~1900 MHZ
VSWR	1.5MAX
IMPEDEANCE	50Ω
Polarization	R.H.C.P
Gain	3dBi
Power handling capacity	40 W

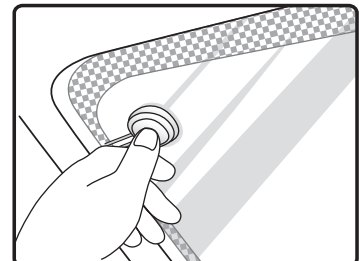
Installation Procedure



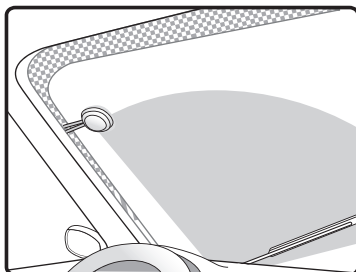
Step 1: Clean the inside of the windshield.



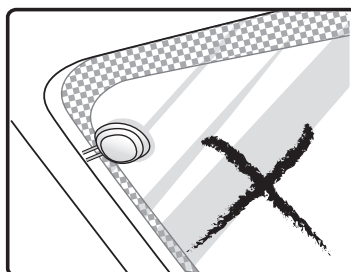
Step 2: Peel off the adhesive tape cover.



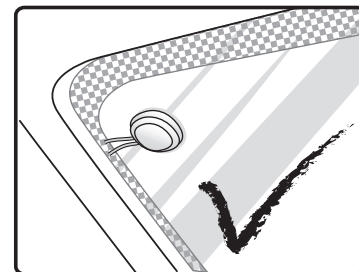
Step 3: Push the antenna firmly into position.



Step 4: Do not mount within the wiper movement arc area.



Step 5: Do not mount on the tinted area



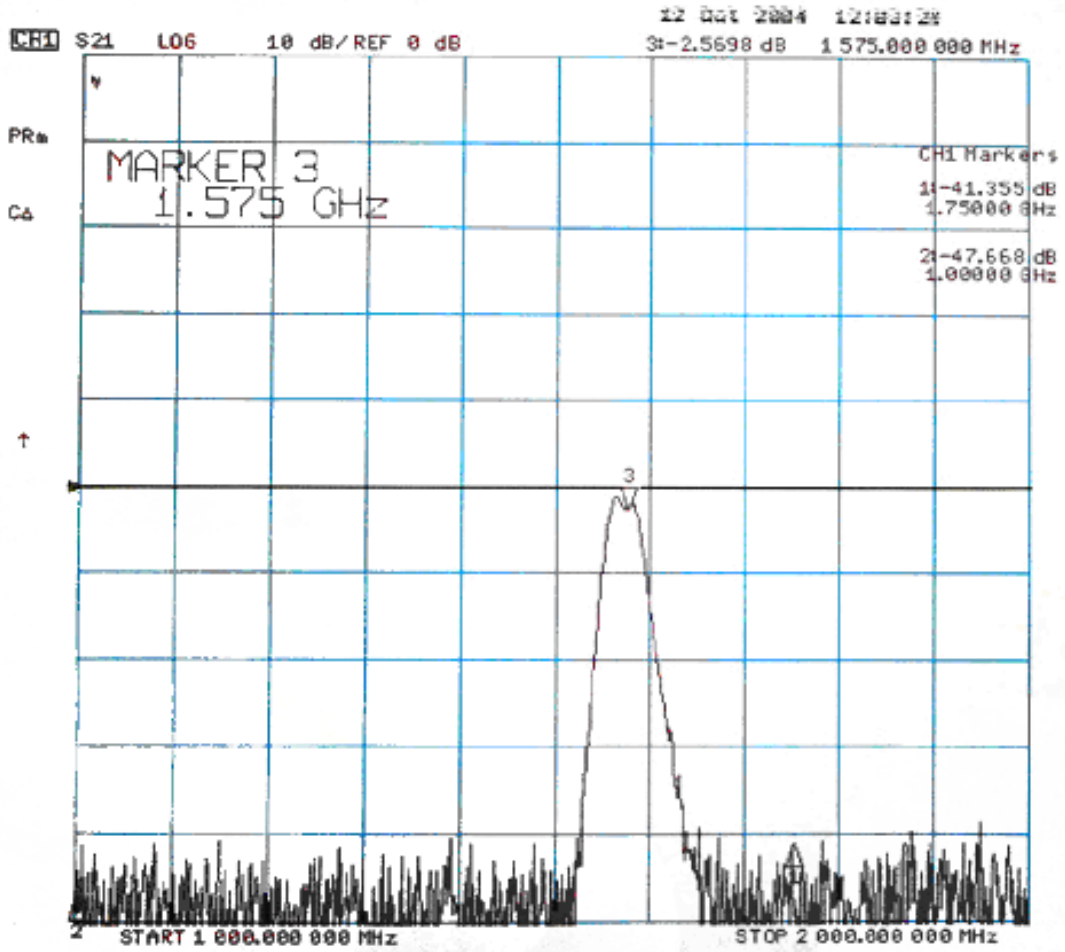
Step 6: The adhesive tape side is the active side and must face the sky.

Note 1:

Avoid running the antenna cable next to antenna cables from two way radios, cell phones etc.
Do not lengthen/shorten the shielded antenna cable.
Take special care when plugging and unplugging the antenna connector.
Take care not to place the antenna under a structure such as a metal roof-rack.

Note 2: If you want to mount the antenna on the dashboard, please check with your sales representative for dash-board-mount version

Active-1 PLOT-1



Active-1 PLOT-2

