

# GPS Active Antenna

## GA-310

GA-310 is an ideal active GPS antenna for your embedded system applications. With 17 x 15 x 6.8 mm in size, it best fit into your GPS system with maximum performance.



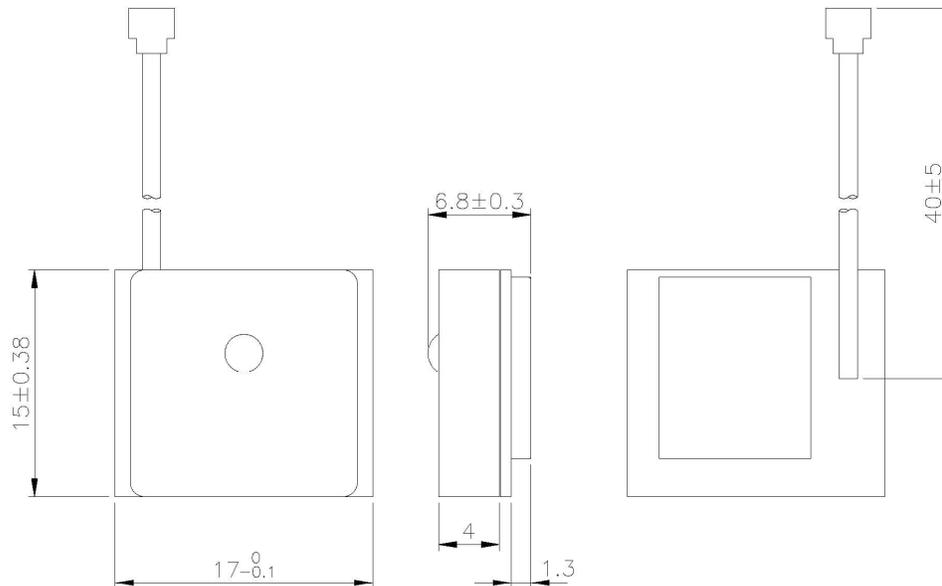
### Key Features :

- Small form factor: 17 x 15 x 6.8 mm
- Lead-Free – RoHS/WEEE compliant
- LNA gain up to 15dB
- Low power consumption
- 40mm cable with I-Pex connector

### Applications :

- Handheld devices
- Automotive and Marine Navigation
- Automotive Navigator Tracking
- Emergency Locator
- Geographic Surveying
- Personal Positioning
- Sporting and Recreation
- Embedded applications : PDA, DSC, Smart phone, UMPC, PND, MP4

### Dimension :



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**Ultimate  
Antenna**

# GA-310 Specifications

Item	Symbol	Specification	Unit	Note
Central Frequency	$f_c$	1575±3	MHz	
Output Impedance	$Z_o$	50	Ohm	At $f_c$
Antenna Gain	$G_A$	2.5	dBi	Elevation 90 degree
Axial Ratio	$R_a$	1.2	dB	Elevation 90 degree
LNA Gain	$G_L$	15	dB	At $f_c$ , No SAW filter
Noise Figure	NF	1.3	dB	At $f_c$ , 1.8dB Max.
In Band Flatness		1	dB	$\leq f_c \pm 1\text{MHz}$
Output VSWR		2.0 max		At $f_c$
Supply Voltage	$V_{cc}$	2.7~5	Vdc	
Power Consumption	$I_{cc}$	3	mA	
Operating Temperature	$T_{op}$	-30 ~ +85	°C	
Storage Temperature	$T_s$	-40 ~ +125	°C	
Operating Humidity		$\leq 95\%$		Non-condensing
Dimension		17 x 15 x 6.8	mm	

Note : 1. Standard testing conditions are 25°C, 3V  $V_{cc}$ , 65% RH  
 2. Specifications are subject to exterior case supplied by customer.

\*Specifications subject to change without prior notice.  
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No.1-2 Li-Hsin Rd.I, Science-Based  
 Industrial Park, Hsinchu, Taiwan  
 T: +886-3-5780393 / F: +886-3-5784111  
 gps.sales@transystem.com.tw