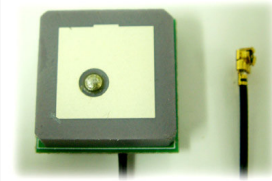


# GPS Active Antenna

## GA-140

GA-140 is an ideal active GPS antenna for your embedded system applications. With 19 x 19 x 7 mm in size, it best fit into your GPS system with maximum performance. Together with Transystem's EB-230 GPS engine board, this is an idea combination for all your GPS applications.



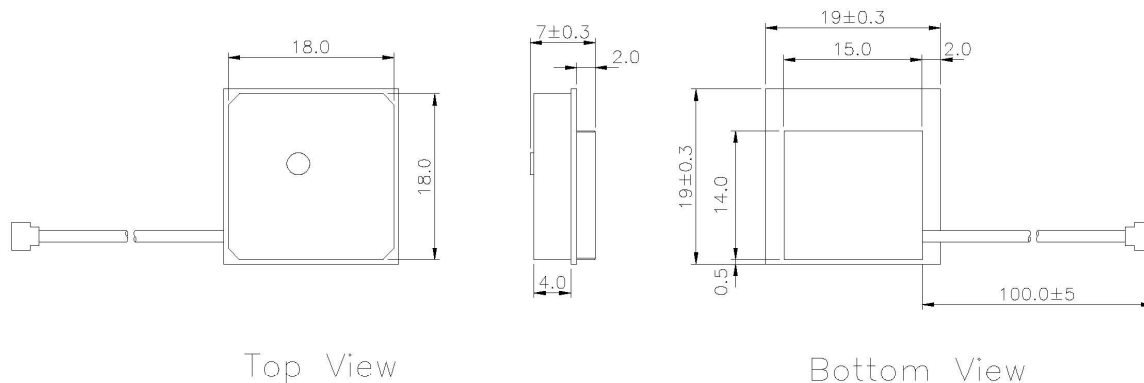
### Key Features :

- Small form factor: 19 x 19 x 7 mm
- Lead-Free – RoHS/WEEE compliant
- High gain up to 30dB
- Low power consumption
- 100mm 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 :



TRANSYSTEM INC.

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Ultimate  
Antenna

# GA-140 Specifications

Item	Symbol	Specification	Unit	Note
Central Frequency	$f_c$	1575 $\pm$ 3	MHz	
Output Impedance	$Z_o$	50	Ohm	At $f_c$
Antenna Gain	$G_A$	-1	dB	Elevation 90 degree
Axial Ratio	$R_a$	4 <sub>max</sub>	dB	Elevation 90 degree
LNA Gain	$G_L$	30	dB	At $f_c$ , No SAW filter
Noise Figure	NF	1.5	dB	At $f_c$ , 1.8dB Max.
In Band Flatness		1	dB	$\leq f_c \pm 1\text{MHz}$
Output VSWR		2.0 <sub>max</sub>		At $f_c$
Supply Voltage	Vcc	3 $\pm$ 5%	Vdc	
Power Consumption	Icc	6	mA	
Operating Temperature	T <sub>op</sub>	-30 ~ +85	°C	
Storage Temperature	T <sub>s</sub>	-40 ~ +125	°C	
Operating Humidity		$\leq 95\%$		Non-condensing
Dimension		19 x 19 x 7	mm	

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

\*Specifications subject to change without prior notice.  
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