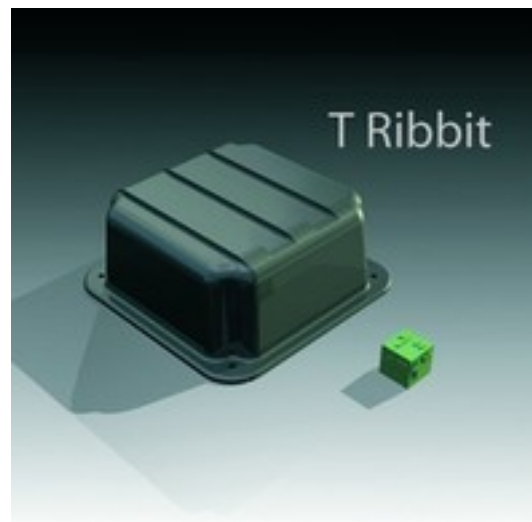


Product Code: **T Ribbit**

catalogue: > GSM/GPS RF Hardware > Orbcomm Antennas

**ORBCOMM/GSM/WIFI (OPTIONAL)/GPS 8" SQUARE ANTENNA FOR SIDE/VERTICAL MOUNTING, A10AA719A-B**



**Versions:**

T Ribbit

CABLE CONNECTORS                      MOQ                      **1**

Cables and connector options available

PRODUCT NARRATIVE

The T-RIBBIT is our latest Orbcomm offering. It is the latest addition to our suite of roof mount and side mount antenna form factors that have been rigorously tested in Q3/Q4 2006 to provide application developers with higher performance with the Orbcomm satellite network.

The design is such that as standard there is a VHF, GPS GSM (quadband) antenna with the option of 2 additional 2.4GHz radiators (typically WLAN and Zigbee).

The very latest improvements are 1 - the addition of high static protection on the GPS which protects it from lightning strikes and high static discharges and 2 - the modification of the radiators to give a consistent 2:1 across the TX band thus reducing the historical high Q of the antenna.

Orbcomm performance is 67% of the reference half wave.

APPLICATION

Side mounting tracking applications

ELECTRICAL DATA

	GSM	GPS	WLAN (optional)	Orbcomm
Frequency Range	824-960 MHz/ 1710-1990 MHz	1575 MHz	2.4 GHz	Rx 137-138 MHz Tx 148-150.05 MHz

	GSM	GPS	WLAN (optional)	Orbcomm
Nominal Gain (exl. cable)	4.5 dBi	26 dBi	0dB	-3.5dBi
Max. Axial Ratio	-	4 dB	-	-
VSWR	Tx	< 2:1		Tx
Rated Power	10 W	1W	5W	10W
Polarisation	Linear	RHCP	Linear	Linear
Voltage	-	3-5 V	-	-
Isolation/Decoupling	12 dB	12 dB	12 dB	12 dB
Noise Figure	-	2 dB max.	-	-
Current Sink		< 20 mA		
Amplifier DC Power	-	3 to 5 VDC on coax cable (+ve centre)	-	-
Impedance	50 Ohms	50 Ohms	50 Ohms	50 Ohms

## MECHANICAL DATA

Operating Temperature	-40°C to +85°C, outside this range antenna performance can be expected to degrade
Orbcomm Relative Performance	Optimum 60% relative to a 1/2 wave reference and it is effected by 1-groundplane size, 2-grounding and 3-cable lengths
Mounting	The antenna needs to be installed on a metal surface, performance will vary unless groundplane is stable. The suggested minimum groundplane is 18"x18" however, the antennas can be tuned to work on smaller groundplanes. The T-Ribbit is optimised for a 18" x 18" groundplane.
Length	Cables and connector options available
Antenna Dimensions	L189mm x W189mm x H81mm
Connectors	All SMA male connectors - cables labelled