

# Aerodynamic Antennas

For many UAV applications aerodynamics is a crucial consideration. Tallysman offers a wide range of GNSS antennas especially designed to provide very high performance with a very low profile. The range includes antennas that feature single and composite patch elements and include both the smallest and lightest dual band patch antennas in the World.



**Single Band  
OEM Antenna**



**Dual Band  
OEM Antenna**



**TW8000 Series  
Housed Antenna**



**TW4000 Series  
Housed Antenna**

Tallysman patch element antennas feature our Accutenna<sup>®</sup> technology, which, by virtue of dual feed patch elements, provide a substantially more pure right hand circularly polarized response over the full antenna bandwidth. This is true, even for the smallest of our (patented ) antenna products.

Accutenna<sup>®</sup> products provide enhanced rejection of cross polarized signals, which commonly results from signal reflections ( multipath, such as from buildings), which otherwise would have the effect of “blurring” the received signals.

Our antennas also support dual and triple band Real Time Kinematics (RTK) systems with wider

bandwidths and tight Phase Centre Variations (PCVs).

The single, dual, and triple band GNSS versions of Tallysman patch-based antennas feature low loss prefilters for protection against high level interfering signals, such as LTE and other communications systems. In addition, passive bidirectional Iridium antennas for satellite communications are also available.

Also available in Iridium models, the Tallysman aerodynamic antenna portfolio can also support the growing number of Iridium applications.

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## Housed Antennas

Housed antennas are available in single, dual, and triple band capabilities. The form factors include: magnetic mount, screw attachment, adhesive mount, and two types of through-hole mounts. Tallysman offers the smallest dual band patch-based antennas in the World.

## OEM (Embedded) Antennas

With a wide variety of OEM (embedded) antennas, Tallysman can support many aerodynamic-sensitive applications. Services to evaluate customer antenna installation configurations are also available, which can be problematic if not considered, and custom tuning to optimize performance and sensitivity once installed in a customer end product.



Product	Frequencies	L-Band	Type	Weight
TW1721/TW1722	L1, G1, E1, B1		OEM patch	18 g
TW2706/TW2708	L1, G1, E1, B1		OEM patch	35 g
TW4721/TW4722	L1, G1, E1, B1		Housed patch	50 g
TW2710/TW2712	L1, G1, E1, B1		Housed patch	110 g
TW3710/TW3712	L1, G1, E1, B1		Housed patch	110 g
TW2920	L1, G1, E1, B1	x	Housed patch	100 g
TW9712	L1, G1, E1, B1		Bottom Connector	
TW1829	L1/L2, G1/G2, E1, B1		OEM patch	37 g
TW8829	L1/L2, G1/G2, E1, B1		Housed patch	52 g
TW3867	L1/L2, G1/G2, E1, B1		OEM patch	70 g
TW3872E	L1/L2, G1/G2, E1, B1	x	OEM patch	185 g
TW3872	L1/L2, G1/G2, E1, B1		Housed patch	185 g
TW7872	L1/L2, G1/G2, E1, B1		Housed patch	180 g
TW9829	L1/L2, G1/G2, E1, B1		Bottom Connector	
TW8825	L1/L5, G1, E1/E5a, B1		Housed patch	52 g
TW1825	L1/L5, G1, E1/E5a, B1		OEM patch	37 g
TW8825	L1/L5, G1, E1/E5a, B1		Housed patch	52 g
TW7875	L1/L5, G1, E1/E5a, B1		Housed patch	180 g
TW9825	L1/L5, G1, E1/E5a, B1		Bottom Connector	
TW9825	L1/L5, G1, E1/E5a, B1		Bottom Connector	
TW7876	L1/L6, G1, B1/B3, E6		Housed patch	180 g
TW1889	L1/L2, G1/G2/G3, E1/E5b, B1/B2		OEM patch	37 g
TW8889	L1/L2, G1/G2/G3, E1/E5b, B1/B2		Housed patch	52 g
TW3967	L1/L2/L5, G1/G2/G3, E1/E5, B1/B2	x	OEM patch	70 g
TW3972E	L1/L2/L5, G1/G2/G3, E1/E5, B1/B2	x	OEM patch	75 g
TW7972	L1/L2/L5, G1/G2/G3, E1/E5, B1/B2	x	Housed patch	180 g
TW3972	L1/L2/L5, G1/G2/G3, E1/E5, B1/B2	x	Housed patch	185 g
TW2600	Iridium		Housed Patch	100 g

**About Tallysman:** With global headquarters and manufacturing in Ottawa, Canada, Tallysman is a leading manufacturer of high-precision antennas and components for Global Navigation Satellite System (GNSS) applications. Tallysman's mission is to support the needs of a new generation of positioning systems by delivering unprecedented antenna precision at competitive prices. Learn more at [www.tallysman.com](http://www.tallysman.com)

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