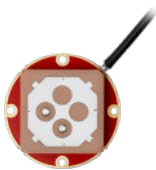


# Aerodynamic Antennas

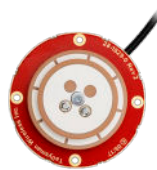
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For many UAV applications, aerodynamics is a crucial consideration. Tallysman offers a wide range of GNSS antennas specially designed to provide very high performance with a very low profile. The range includes antennas that feature single and composite 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 supports the growing number of Iridium applications.

# Aerodynamic Antennas

## 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.



| Model         | L-Band Corrections | Frequency Bands                           | Type             | Weight |
|---------------|--------------------|---|------------------|--------|
| TW1721/TW1722 |                    | L1, G1, E1, B1                            | OEM Patch        | 18 g   |
| TW2706/TW2708 |                    |   | OEM Patch        | 35 g   |
| TW4721/TW4722 |                    |   | Housed Patch     | 50 g   |
| TW2710/TW2712 |                    |   | Housed Patch     | 110 g  |
| TW3710/TW3712 |                    |   | Housed Patch     | 110 g  |
| TW2920        | x                  |   | Housed Patch     | 100 g  |
| TW9712        |                    | L1/L2, G1/G2, E1, B1                      | Bottom Connector |        |
| TW1829        |                    |   | OEM Patch        | 37 g   |
| TW8829        |                    |   | Housed Patch     | 52 g   |
| TW3867        |                    |   | OEM Patch        | 70 g   |
| TW3872E       | x                  |   | OEM Patch        | 185 g  |
| TW3872        |                    |   | Housed Patch     | 185 g  |
| TW7872        |                    |   | Housed Patch     | 180 g  |
| TW9829        |                    | L1/L5, G1, E1/E5a, B1/B2a                 | Bottom Connector |        |
| TW8825        |                    |   | Housed Patch     | 52 g   |
| TW1825        |                    |   | OEM Patch        | 37 g   |
| TW8825        |                    |   | Housed Patch     | 52 g   |
| TW7875        |                    |   | Housed Patch     | 180 g  |
| TW9825        |                    |   | 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        |                    |   | Housed Patch     | 52 g   |
| TW3967        | x                  | L1/L2/L5, G1/G2/G3, E1/E5a/E5b, B1/B2/B2a | OEM Patch        | 70 g   |
| TW3972E       | x                  |   | OEM Patch        | 75 g   |
| TW7972        | x                  |   | Housed Patch     | 180 g  |
| TW3972        | x                  |   | Housed Patch     | 185 g  |
| TW2600        |                    | Iridium                                   | Housed Patch     | 100 g  |