



Tallysman's AJ (Anti-Jamming) Antenna Option

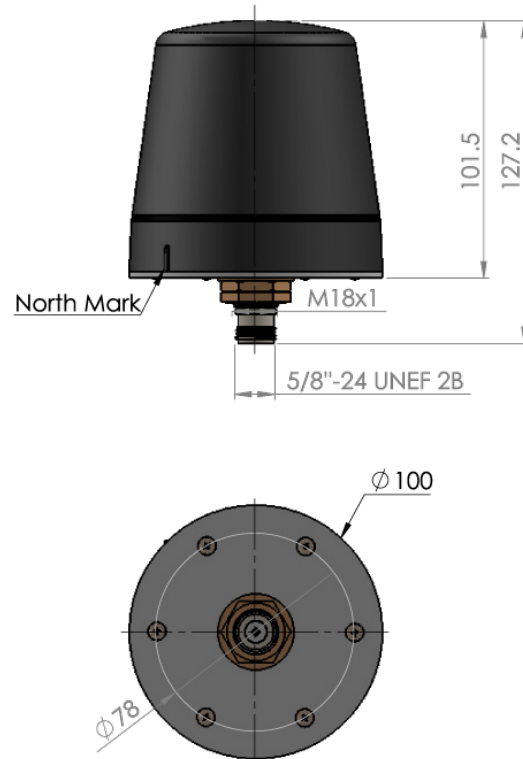
Overview

GNSS jammers are becoming a threat to successful satellite tracking, even though they are illegal in many jurisdictions. Jammers are indiscriminate. They prevent the reception of wanted GNSS signals by emitting strong electronic “noise” in the same frequency band as the GNSS signals. The result is the LNA (low noise amplifier) in the GNSS antenna saturates; resulting in no signal being passed to the GNSS receiver.

Tallysman's solution to this is to provide an AJ option to its single band Accutenna® TW3000 family of antennas. This option modifies the radiation pattern of the GNSS antenna such that it is “deaf” to signals arriving from an elevation angle of -10° to $+15^{\circ}$ from the horizon while slightly increasing the gain of the antenna at zenith. Since jamming signals typically originate at low elevations, using a Tallysman AJ antenna mitigates a significant portion of jamming signals.

Because the AJ feature reduces the antenna's sensitivity to lower angle satellites, it is highly recommended that users access more than one constellation, such as GPS + GLONASS or GPS / GLONASS / Galileo etc. to ensure continuity of GNSS tracking.

Please check the ordering guide to determine the part number modifier.



The AJ feature is available on the following antenna models:

GPS L1	GPS L1 + GLONASS G1	GPS L1 + GLONASS G1 + Galileo E1 + BeiDou B1
TW3142	TW3442	TW3742/TW3752

Tallysman's AJ (Anti-Jamming) Antenna Option

Radiation Pattern Comparison of an AJ antenna versus a Non-AJ antenna @1575MHz

