

Rugged / Armored Active GPS Antenna (TNC)



PART NUMBER

NWT-GPS-TNC

PRODUCT DESCRIPTION

This GPS antenna assembly includes an LNA for those GPS receivers that require an active antenna.

PRODUCT OVERVIEW

The NWT-GPS-TNC active GPS antenna includes the antenna as well as an LNA that is powered from the GPS receiver itself. With the additional gain from the LNA this product improves GPS coverage in hard-to-reach deployments such as deep pit mines, indoor industrial deployments and more.

MECHANICAL

Antenna Dimensions	75 mm × 75 mm × 25 mm
Material	PCBA + Ceramic + RF Cable
Cable Type & Color & Length	TBD
Mounting Type	TBD

ENVIRONMENTAL

Operation Temperature	-40 °C to +85 °C
Storage Temperature	-40 °C to +85 °C
RoHS & REACH Compliant	Yes

ELECTRICAL – ANTENNA

Frequency Range	1559–1606 MHz
Impedance	50 Ω
Polarization	RHCP
Radiation Pattern	Directional

ELECTRICAL – LNA

LNA Gain	28 ±3 dB
Noise Figure	≤ 2.5 dB
Output VSWR	< 2.0
Filter Out-of-Band Attenuation	≥ 45 dB f0 ±100 MHz f0 (1580 MHz)
Working Voltage	2.7–3.3V
Working Current	8 ±3 mA @3.3 V
Impedance	50 Ω

©2026 Northwest Towers, LLC All Rights Reserved.

Although Northwest Towers makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability. Northwest Towers provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Northwest Towers be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Northwest Towers has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.