

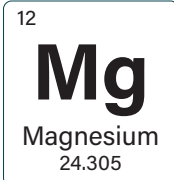
High Data Rate Output	10W (2 x 5W)
L- Band	1350 to 1500 MHz
Weight	908 g (32 oz)
Supply Voltage Range	+9 VDC to +28 VDC
Operating Temperature	-30° C to +55° C
IP Rating	IP66
Altitude	0 to 20,000 ft.

## THPR1039 | Enhanced DTC Radio System



### Innovation that Challenges SWaP Limitations

The THPR1039 is a lightweight 10W (5W per channel), L-Band, dual MIMO radio that is used for long distance UAS Video and C2 links, which achieves RF link ranges in excess of 50km when used in both the ground and air radio segments. This unit, built with magnesium housing, is an expansion of Triad's High Power Radio System (THPR) product line. It combines a DTC Solo8 MIMO radio, high power amplification, and custom filtering into a single, easy to integrate package.



**The THPR1039 incorporates a magnesium alloy housing to achieve a final weight of only 32 oz (908 g).**

Triad's engineering efforts brought forth the SWaP-sensitive solution of using a magnesium alloy housing, instead of the aluminum alloys traditionally used for housing RF systems. This achieved a final weight of 32 oz (<1 kg), and amounted to a 33% weight reduction compared with an aluminum-housed unit.

This effort highlights our engineering group's continual focus on exploring new ways to design RF systems. Innovation in materials, RF system design, and manufacturing help Triad meet performance goals and SWaP limitations that keep Triad ahead of the competition.

**Contact us for more information at [sales@triadrf.com](mailto:sales@triadrf.com)**