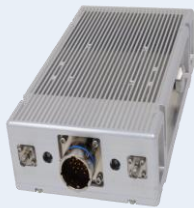


### Longer Range | Higher Data Rates | Lowest SWaP

Triad's THPR series break performance barriers for MIMO radios and enable first-run link success. They eliminate the need to integrate stand-alone components for long range wireless links. Triad combines our high-power RF sub-systems with a Domo Tactical Solo8 OEM core radio in a low SwAP package. THPR products contain BDAs, RF filtering, and innovative SoC-based monitoring and controls, with real-time power measurement and link diagnostics.



20W (Small)



50W (Medium)



100-200W (Mega)

### FEATURES

- Fully Integrated High-Power RF Sub-System & Radio
- Extended Range / Data Rate over Stand-Alone Radio
- Enhanced RF Link Control via USB & Serial
- Wide Vin, Single DC Supply
- Power Equalization over Frequency and Temperature

### APPLICATIONS

- Long Distance - High Data Rate ISR Links
- UAS, UGV and USV Video / Data Links
- Military MANET
- Maritime High-Throughput LOS/NLOS Systems
- Point-To-Point and Mesh Networking

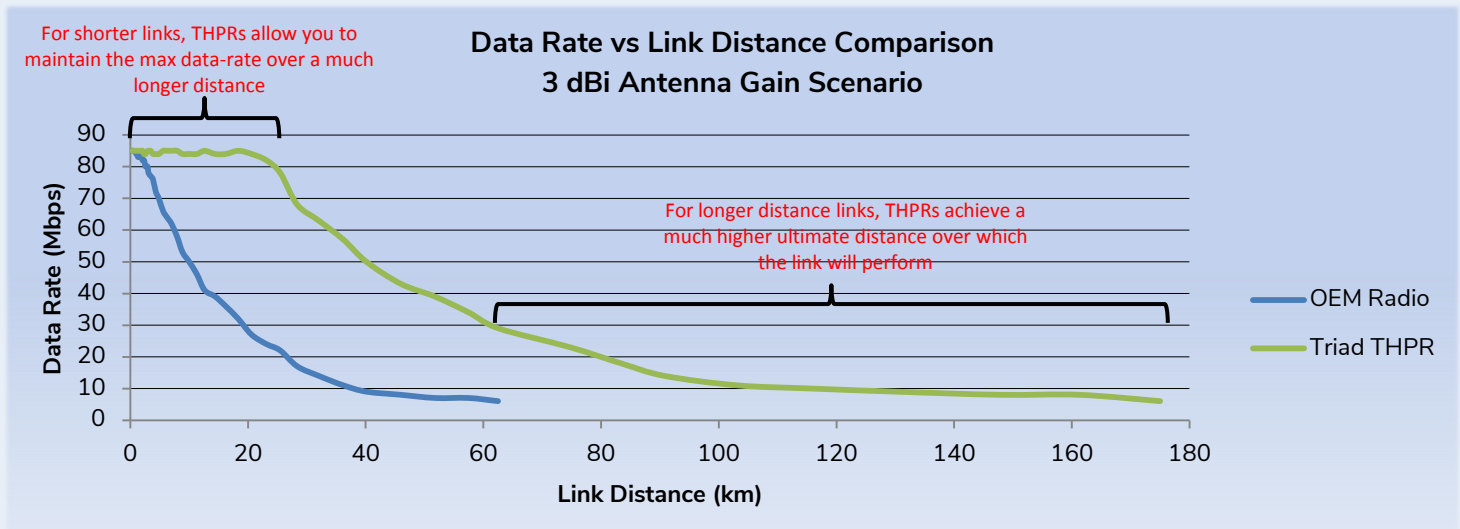
### SPECIFICATIONS

#### Fully Integrated Solo8 Core Radios

Model	Frequency 1	Frequency 2
SOL8SDR-C-132043	1140 – 1500 MHz	433.05 – 433.79 MHz
SOL8SDR-C-201043	1670 – 2350 MHz	433.05 – 434.79 MHz
SOL8SDR-C-201091	1670 – 2350 MHz	902.00 – 928.00 MHz
SOL8SDR-C-234043	1980 – 2700 MHz	433.05 – 434.79 MHz
SOL8SDR-C-234091	1980 – 2700 MHz	902.00 – 928.00 MHz

#### RF Power Levels Available

- Small:** 20W total (10W / Stream)
- Medium:** 30-50W total (15-25W / Stream)
- Mega:** 50-200W total (25-100W / Stream)



### Link Distance Charts

These tables provide estimates for link distances achievable, based on typical bandwidth needs and antenna configurations  
[Contact Triad](#) for our ISR link team to provide an expert assessment of your link requirements

#### Typical Use Case 1: Short Range, Low Antenna Gain Link Configuration

Ground Station Antenna: 9dBi Fixed Omni

Air Vehicle Antenna: 2-5 dBi Blade

	Small THPR (10W / Ch)	Medium THPR (25W / Ch)	Mega THPR (100W / Ch)
<b>Low data rate application</b> 1-3 Mbps for telemetry and low BW video	116 km	185 km	200+ km
<b>Mid data rate application</b> 4-8 Mbps for high BW video, single EO/IR Stream + C2/Telemetry	52 km	82 km	165 km
<b>High data rate application</b> 30+ Mbps multiple high BW video streams. Data with high throughput requirements.	10 km	16 km	33 km

#### Typical Use Case 2: Long Range, High Antenna Gain Link Configuration

Ground Station Antenna: 24dBi Tracking Dish

Air Vehicle Antenna: 2-5 dBi Blade

	Small THPR (10W / Ch)	Medium THPR (25W / Ch)	Mega THPR (100W / Ch)
<b>Low data rate application</b> 1-3 Mbps for telemetry and low BW video	200+ km	200+ km	200+ km
<b>Mid data rate application</b> 4-8 Mbps for high BW video, single EO/IR Stream + C2/Telemetry	200+ km	200+ km	200+ km
<b>High data rate application</b> 30+ Mbps multiple high BW video streams. Data with high throughput requirements	58 km	93 km	185 km

### Mechanical Specifications

Parameter	Value	Unit
RF Connectors	SMA-F, N-F, and TNC Standard, others available	--
DC / Control Connector	Circular Locking	--
Mounting	6-32 Through Holes	--

### Environmental Specifications

Parameter	Min	Max	Unit
Ambient Operating Temperature	-40	60	°C
Ingress Protection Rating	IP67		--
Altitude	0-50,000		ft.
Shock / Vibration	MIL-STD-810 and Equivalents		--

For more information and to request a quote: [Triad RF Radio Systems](#)