

## **RADWIN TerraBridge**

# Delivering wireless Inter-carriage connectivity at 5G speeds

RADWIN TerraBridge provides continuous high-speed connectivity between train carriages to warrant end-to-end gigabit networks across any train.

TerraBridge is an exceptional 60GHz mmWave wireless connectivity solution that assures operational efficiency, ease of use and unparalleled flexibility when looking to upgrade onboard networks for trains.

Inter-carriage connectivity options available today have various limitations:

- » Existing mechanical couplers are occasionally bandwidth limited and provide no simple upgrade option (cost, space)
- » Dynamic train carriage composition causes high wear & tear to mechanical couplers, ultimately increasing maintenance costs
- » Current wireless solutions based on the 2.4 & 5GHz Wi-Fi spectrum are sensitive to interference from other onboard and in-station wireless access points
- » Other wireless solutions also include multiple components (radios, cables, and antennas) that can be cumbersome to install and maintain

### TerraBridge Highlights:



Enabling over 1Gbps per link, RADWIN's TerraBridge is ideal for wireless inter-carriage connectivity. This hand-sized, lowweight solution is easy to install and requires practically no maintenance at all.

The product is designed specifically for the railway industry, to assure a highly reliable connection, with minimal maintenance.

#### TerraBridge software:

» Web based, easy to use management

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- » Auto connect functionality
- » No need for pre-defined links

## Technical highlights:

Throughput:	1.5 Gbps throughput	
Latency:	Maximum<4msec; Average <2msec (for 90% load)	
Power:	PoE Gbe interface, 802.3af	
Connector:	M12 X-coded connector	
Operating Temperatures:	-40° to 70°C / -40° to 158°F	
Environmental:	IP-69K, NEMA-type 4	
Railway standards:	EN50155, EN50121, EN61373, EN45545	
Antenna:	Integrated inside the radio unit	•
Size (HxWxD):	12x12x2.25 cm / 4.7x4.7x1 in	



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