

# Antenna-Railway-2L2WG-0

## Railway Antenna with MIMO LTE + MIMO WLAN + GNSS + EN50155

Omnidirectional multiband antenna for signal enhancement in 4G, 3G, 2G, WLAN networks and active GPS antenna.



### Keyfeatures

<b>WiFi / WLAN</b>	MIMO 2.4 / 5 GHz
<b>Cellular</b>	MIMO LTE / UMTS / GSM / GSM-R
<b>GNSS</b>	active
<b>Railway</b>	EN50155, EN45545

### Specifications

<b>Mobile / Cellular</b>	<b>Standard</b>	2 x GSM / GSM-R / UMTS / LTE <b>LTE</b> Bands: 1, 2, 3, 4, 5, 7, 8, 10, 12, 13, 14, 17, 18, 19, 20, 23, 25, 26, 27, 28, 29, 30, 65, 66, 67, 68, 69, 70, 85 - TDD Bands: 33, 34, 35, 36, 37, 38, 39, 40, 41, 44, 53 <b>UMTS</b> Bands: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 19, 20, 25, 26 - TDD Bands: 33, 34, 35, 36, 37, 38, 39, 40 <b>GSM</b> Bands: 710, 750, 810 T-GSM, 850, 900 P, 900 E, 900 R, 1800 DCS, 1900 PCS <b>Bands</b> 710, 750, 810 T-GSM, 850, 900 P, 900 E, 900 R, 1800 DCS, 1900 PCS <b>Frequency</b> 694 - 960, 1710 - 2690
	<b>Specification</b>	<b>Gain</b> 7,5 dBi (LTE 700, GSM-R) / 8,6 dBi (GSM 1800, UMTS, LTE 2600) <b>VSWR</b> $\leq$ 1,8 typ. <b>Impedance</b> 50 Ohm <b>Radiation</b> omnidirectional
	<b>Connectors</b>	2x TNC female
<b>WiFi / WLAN</b>	<b>Standards</b>	2 x Dual-band WLAN 2.4/5 GHz <b>Frequency</b> 2400 - 2500, 5180 - 5835
	<b>Specification</b>	<b>Gain</b> 9,1 dBi (WLAN 2.4) / 10,1 dBi (WLAN 5) <b>VSWR</b> $\leq$ 1,8 typ. <b>Impedance</b> 50 Ohm <b>Radiation</b> omnidirectional
	<b>Connectors</b>	2x N female <b>Type</b> N <b>Gender</b> Female
<b>GNSS</b>	<b>Standards</b>	1 x GPS / Galileo / GLONASS / BeiDou <b>Type</b> active <b>Frequency</b> 1560 - 1606
	<b>Specification</b>	<b>Gain</b> 5.1 dBi <b>VSWR</b> $\leq$ 1,8 typ. <b>Impedance</b> 50 Ohm <b>Radiation</b> omnidirectional
	<b>Amplifier</b>	<b>Power</b> 3.3 - 5 V <b>Current</b> 8 mA typ. (3,3 V) / 15 mA typ. (5 V) <b>Gain</b> 25 dB typ.
	<b>Connectors</b>	1x N female <b>Type</b> N <b>Gender</b> Female 0,3 m cable N-m angle to amplifier with N-f

<b>Mechanical</b>	<b>Dimensions</b>	<b>Diameter</b> 200 mm
	<b>Weight</b>	<b>Height</b> 60 mm
	<b>Mounting</b>	1500 g
	<b>Color</b>	Rooftop with screws black
<b>Environment</b>	<b>Operating Temperature</b>	-60°C to +80°C
	<b>Ingress Protection Level</b>	IPX9k IP6X
<b>Certifications</b>	<b>Compliance Standards</b>	EN 50155, EN 50122-1, EN 50124, IEC 60068, IEC 61373, ISO20653, ISO 9227, EN 45545-2 2014/30/EU; 2006/28/EC; 2002/95/EC
	<b>Domain</b>	EN 50122-1, EN 50124, IEC 60068, IEC 61373, ISO20653, ISO 9227, 2006/28/EC; 2002/95/EC Railway
<b>Extension Cables</b>	<b>Cellular</b>	2 x direct connector / 0 m / N female
	<b>WLAN</b>	2 x direct connector / 0 m / N female
	<b>GNSS</b>	1 x direct connector / 0 m / N female
<b>Other</b>	<b>Order Code</b>	Antenna-Railway-2L2WG-0