

# Antenna-Railway-4L2WG

## Bahntaugliche Antenne mit 4x4 MIMO LTE + MIMO WLAN + GNSS + 3m Kabel

Omnidirektionale Multiband-Antenne zur Signalverbesserung in 4G-, 3G-, 2G- sowie WLAN-Netzwerken und mit aktiver GPS-Antenne.



### Hauptmerkmale

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

### Spezifikation

<b>Mobile / Cellular</b>	<b>Standard</b>	4 x LTE / UMTS / GSM / GSM-R <b>LTE Bands:</b> 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 - <b>TDD Bands:</b> 33, 34, 35, 36, 37, 38, 39, 40, 41, 44, 53 <b>UMTS Bands:</b> 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 19, 20, 25, 26 - <b>TDD Bands:</b> 33, 34, 35, 36, 37, 38, 39, 40 <b>GSM Bands:</b> 710, 750, 810 T-GSM, 850, 900 P, 900 E, 900 R, 1800 DCS, 1900 PCS <b>Frequency (MHz)</b> 694 - 960, 1710 - 2690
	<b>Specification</b>	<b>Gain</b> 7,2 dBi (LTE 700, GSM-R) / 7,9 dBi (GSM 1800, UMTS, LTE 2600) <b>VSWR</b> ≤ 1,8 typ. <b>Impedance</b> 50 Ohm <b>Radiation</b> omnidirectional
	<b>Connectors</b>	4x N female <b>Type</b> N <b>Gender</b> Female
<b>WiFi / WLAN</b>	<b>Standards</b>	2 x Dual-band WLAN 2.4/5 GHz <b>Frequency (MHz)</b> 2400 - 2500, 5180 - 5835
	<b>Specification</b>	<b>Gain</b> 7,6 dBi (WLAN 2.4) / 8,1 dBi (WLAN 5) <b>VSWR</b> ≤ 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 (MHz)</b> 1560 - 1606
	<b>Specification</b>	<b>Gain</b> 5.7 dBi <b>VSWR</b> ≤ 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 no ground plane needed black
<b>Environment</b>	<b>Operating Temperature</b>	-60°C bis +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>	4 x Ant-Cable-Railway-01-Nm-TNCm-3 / 3 m / N male / TNC male
	<b>WLAN</b>	2 x Ant-Cable-Railway-01-Nm-TNCm-3 / 3 m / N male / TNC male
	<b>GNSS</b>	1 x Ant-Cable-Railway-01-Nm-TNCm-3 / 3 m / N male / TNC male
<b>Other</b>	<b>Order Code</b>	Antenna-Railway-4L2WG