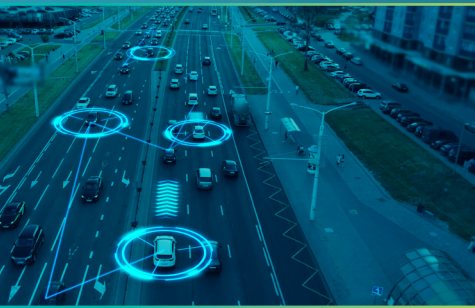


STANDARD PRODUCT CATALOG



driven by communication

HIGH PERFORMANCE READY-TO-USE ANTENNA AND TUNER SYSTEMS FOR RADIO, TV, MOBILE DATA AND SATELLITE SERVICES

Hirschmann Car Communication provides some of the world leading antenna, telematics and infotainment systems for automobile and commercial vehicles as well as the broader transportation market, ensuring seamless communication and connectivity worldwide.

With a century of experience since our founding in 1924, we have mastered various markets. Our core competency lies in first class transmission and reception systems, fueling innovation with numerous patents.

This catalogue contains ready-to-use antenna and tuner systems for the M2M & Telematics market as well as Commercial, Off-road and Recreational Vehicles. For the Automotive Aftermarket we offer various broadcast antennas. In case you need an individual solution please contact us via email: info@hirschmann-car.com. We offer customized solutions according to your requirements.

DISCOVER OUR WIDE RANGE OF STANDARD PRODUCTS IN THE FOLLOWING FOUR AREAS:

M2M (Machine-to-Machine) / IoT (Internet of Things) Communication & Telematics

Antennas and products/accessories for M2M & IoT applications and fleet management



Commercial, Off-road and Recreational Vehicles

Antennas and products/accessories for trucks, mobile homes, vans and off-road applications

Infotainment

Remote Tuner Module OTS (off-the-shelf) for radio broadcast reception



Automotive Aftermarket

Broadcast antennas

All products are available worldwide. For more information please contact us via email: info@hirschmann-car.com. Alternative cable and connector configurations on request.

The information/details in this publication merely contain general descriptions or performance factors which, when applied in an actual situation, do not always correspond with the described form, and may be amended by way of the further development of products. The desired performance factors shall only be deemed binding if these are expressly agreed on conclusion of the contract.

	TERRESTRIAL RADIO BROADCAST	SATELLITE RADIO BROADCAST	TERRESTRIAL COMMUNICATION	SATELLITE COMMUNICATION	GNSS	WLAN / BLUETOOTH	V2X	RKE	UWB	ISM	TETRA	CB/PMR	ADHESIVE	MAGNETIC	SCREW MOUNT	EMBEDDED	PAGE
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■ = Services
 ■ = Mounting Options

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● = Services
 ● = Mounting Options

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● = Services
 ● = Mounting Options

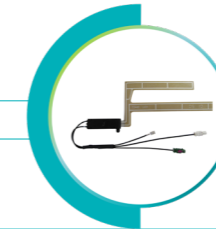
	TERRESTRIAL RADIO BROADCAST	SATELLITE RADIO BROADCAST	TERRESTRIAL COMMUNICATION	SATELLITE COMMUNICATION	GNSS	WLAN / BLUETOOTH	V2X	RKE	UWB	ISM	TETRA	CB/PMR	ADHESIVE	MAGNETIC	SCREW MOUNT	EMBEDDED	PAGE
4 RADIO																	
Remote Tuner Module OTS	●	●													●		31

● = Services
 ● = Mounting Options

Functions/Services:	Examples:
Terrestrial Radio Broadcast	AM/FM/DAB/TV
Satellite Radio Broadcast	Sirius XM
Terrestrial Communication	3G/4G/5G
Satellite Communication	IRIDIUM, ORBCOMM
GNSS (Global Navigation Satellite System)	GPS, GLONASS, Galileo, BeiDou
WLAN/Bluetooth	WLAN, Bluetooth, BLE (Bluetooth low energy)
V2X (Vehicle-to-Everything)	V2X, DSRC
RKE (Remote Keyless Entry)	RKE
UWB (Ultra-wideband)	UWB
ISM (Industrial, Scientific and Medical Band)	ISM Band, e.g. Products at 433 MHz
TETRA (Terrestrial Trunked Radio)	TETRA
CB (Citizen Band)/PMR (Personal Mobile Radio)	CB/PMR

AM/FM/DVB-T FILM ANTENNA

AM/FM/DVB-T
 - Mounting car window glass
 - With amplifier



Dimensions	590 x 110 mm
Frequency range	
LW:	144 kHz - 244 kHz
MW:	520 kHz - 1710 kHz
FM (ECE):	88 MHz - 108 MHz
TV (DVB-T):	470 MHz - 762 MHz
Amplification	
AM:	6 dB
FM:	5 dB
DVB-T:	14 dB

Part Number	AM/FM	DVB-T	Ground
	Cable length Connector	Cable length Connector	Cable length Connector
	RG 174		
920-283-001	350 mm FAKRAm, B white	300 mm FAKRAm, E green	80 mm Blade terminal female 6.3 mm

CEL 7026 LP S

2G/3G/4G
 - Mounting on various surfaces (e.g. plastic, metal, ...)
 - Screw mount



Dimensions	80 x 80 x 31 mm
Gain	0 dBi

Part Number	Cable	Connector
	RG 174 LL	
920-635-001	1000 mm	SMAm

Other cable lengths and connectors on request.

CEL 7026 A

2G/3G/4G
 - Easy interior and exterior windscreen mounting, self-adhesive



Dimensions	107 x 54 x 3.5 mm
Gain	typ. 2.15 dBic

Part Number	Cable	Connector
	RG 174 LL	
920-409-001	3000 mm	FAKRaf, D
920-409-002	3000 mm	SMAm

CEL 7026 RD M

2G/3G/4G
 - Magnetic mount



Dimensions	ø 30 x 91.4 mm
Gain	typ. 3 dBi

Part Number	Cable	Connector
	RG 174 LL	
955-006-001	2500 mm	FMEf
955-006-002	2500 mm	SMAm

CEL 8026 BASE

- 2G/3G/4G
 - Outdoor antenna
 - For fix mast and wall mounting



Dimensions (without bracket) 154 x 134 x 46 mm
 Gain typ. 9 dBi

Part Number	Cable	Connector
	RG 58 LL	
602-456-001	5000 mm	SMAm

CEL 8026 STAT

- 2G/3G/4G
 - Outdoor antenna
 - For fix wall mounting



Dimensions (without bracket) 275 x 16 mm
 Gain typ. 2 dBi

Part Number	Cable	Connector
	RG 58	
602-458-001	5000 mm	FMEf
602-458-002	5000 mm	SMAm

CEL 8521 RD M

- 2G/3G
 - Magnetic mount
 - Easy mounting
 - Strong magnet



Dimensions ø 29 x 90 mm
 Gain typ. 2 dBi

Part Number	Cable	Connector
	RG 174	
951-013-001	2500 mm	FMEf
951-013-002	2500 mm	SMAm

CEL 8521 ST

- 2G/3G/4G
 - Screw Mount
 - Direct mounting on device



Dimensions 10.5 - 50 x 17 mm
 Gain typ. 2 dBi

Part Number	Cable	Connector
951-012-001		SMAm angled 90°
951-012-002		FMEf angled 90°

Other cable lengths and connectors on request.

CEL2 7038 M MIMO

- 2G/3G/4G/5G
 - Magnetic mount
 - High performance, coverage and data rate



Dimensions 121 x 77 x 91 mm
 Gain 2 dBic

Part Number	Cable	Connector
CELLULAR 1 & 2	RG 174 LL	
951-028-011	1000 mm	SMAm
951-028-015	5000 mm	SMAm

CEL2 7038 S MIMO

- 2G/3G/4G/5G
 - Mounting on various surfaces (e.g. plastic, metal, ...)
 - Screw mount



Dimensions 124 x 80 x 84 mm
 Gain 2 dBic

Part Number	Cable	Connector
CELLULAR 1 & 2	RG 174 LL	
951-018-011	200 mm	SMAm

DAB 1724 FL

- DAB+
 - Adhesive film antenna for digital broadcasting (DAB+)

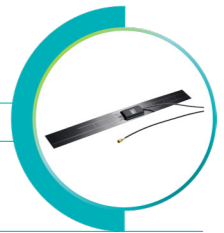


Dimensions 405 x 36 mm
 Gain 20 dB

Part Number	Cable	Connector
	RG 174	
920-352-001	3000 mm	SMBf

DVB 4779 FL/PART

- DVB-T
 - Adhesive film antenna for TV reception



Dimensions 256 x 36 mm
 Gain 20 dB

Part Number	Cable	Connector
	RG 174	
920-359-002	5000 mm	F-connector acc. IEC 169-24

GNSS 11 S

- GLONASS/GPS
 - Low current consumption
 - Screw mount

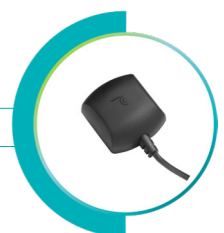


Dimensions 63 x 63 x 19 mm
 Voltage supply 2.7 - 5.5 VDC
 Gain typ. 2 dBic
 Amplification typ. 27 dB ± 1 dB
 Current consumption ≤ 13 mA @ 5 V ± 0.5 V

Part Number	Cable	Connector
	RG 174	
602-442-001	5000 mm	FAKRAF, C
602-442-003	200 mm	SMBf

GNSS 9 M

- GLONASS/GPS
 - Low current consumption
 - Easy interior and exterior mounting
 - Magnetic mount



Dimensions 38 x 34 x 15.5 mm
 Voltage supply 2.7 - 5.5VDC
 Gain typ. 2 dBic

Part Number	Cable	Connector
	RG 174	
602-439-001	3000 mm	SMAm
602-439-004	5000 mm	FAKRAF, C
602-439-006	3000 mm	SMAm

GPS 10 P

GPS
 – Low current consumption
 – Adhesive mount



Dimensions 34 x 38 x 12.8 mm
 Voltage supply 2.7 - 5.5 VDC
 Gain typ. 2 dBic
 Amplification typ. 26 dB ± 2 dB
 Current consumption ≤ 13 mA @ 5 V ± 0.5 V (typ. 10 mA)

Part Number	Cable	Connector
	RG 174 LL	
602-431-001	3000 mm	SMAM
602-431-002	3000 mm	FAKRAF, C blue

IRD LP M

IRIDIUM
 – IRIDIUM certified
 – Adhesive pad on request
 – Magnetic mount



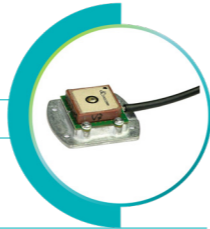
Dimensions 63 x 63 x 18 mm
 Gain typ. 3 dBic

Part Number	Cable	Connector
	RG 174 LL	
955-047-001	1500 mm	TNCm
955-047-002	1500 mm	SMAM
955-047-004	125 mm	SMAM
955-047-005	2500 mm	SMAM
	RG 58 LL	
956-310-801	4570 mm	TNCm
956-310-802	5500 mm	SMAM
956-310-803	5500 mm	rpTNCf*
956-310-004	2500 mm	SMAM
956-310-005	5500 mm	SMBf
956-310-806	5500 mm	TNCm

*rp = reverse polarity

GPS 9 I

GPS
 – Low current consumption
 – Embedded mount



Dimensions 32 x 36 x 10 mm
 Voltage supply 2.7 - 5.5 VDC
 Gain typ. 2 dBic
 Amplification typ. 27 dB ± 1 dB
 Current consumption ≤ 13 mA @ 5 V ± 0.5 V (typ. 10 mA)

Part Number	Cable	Connector
	RG 174 LL	
956-510-501	200 mm	raSMAM*
956-510-502	200 mm	raMCXm*
956-510-503	200 mm	raMMCXm*

* ra = right-angled

IRD LP S

IRIDIUM
 – IRIDIUM certified
 – For use in telematic applications
 – Screw mount



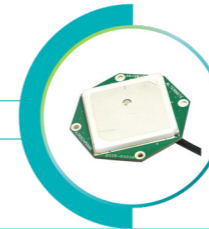
Dimensions 63 x 63 x 18 mm
 Frequency range 1616 - 1626.5 MHz
 Gain typ. 3 dBic

Part Number	Cable	Connector
	RG 174 LL	
955-048-001	150 mm	SMAM
955-048-002	200 mm	TNCm

Other cable lengths and connectors on request.

IRD PC S

IRIDIUM
 – IRIDIUM certified
 – For embedded installation



Dimensions 52 x 52 x 7 mm
 Frequency range 1616 - 1626.5 MHz
 Gain typ. 3 dBic

Part Number	Cable	Connector
	RG 174 LL	
956-311-101	150 mm	SMAM
956-311-102	500 mm	SMAM

ORB RD S

ORBCOMM
 – Screw mount
 – Antenna rod 405 mm



Dimensions 95 x 57 x 38 mm
 Frequency range 137 - 151 MHz
 Gain typ. 5 dBi

Part Number	Cable	Connector
	RG 58	
956-211-401	7620 mm	SMAM

MCA 2458 S

WLAN/Bluetooth/DSRC
 – Mounting on various surfaces (plastic, metal, ...)
 – Screw mount

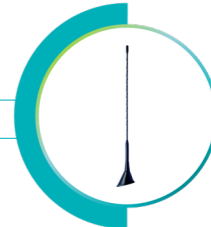


Dimensions 80 x 80 x 30 mm
 Frequency range 2400 - 2484 MHz
 5150 - 5925 MHz
 Gain typ. 3 dBi

Part Number	Cable	Connector
	RG 174 LL	
920-315-002	1000 mm	SMAM

RAD 015-108 RD/S

AM/FM
 – Screw Mount
 – Rod 405 mm



Dimensions 64 x 46 x 47 mm
 Frequency range
 AM: 150 kHz - 6.2 MHz
 FM: 87 - 108 MHz
 Voltage Supply 12 V DC
 Amplification
 AM: 10 dB
 FM: 6 dB

Part Number	Cable	Connector
	RG 174	
920-443-001	RF 240 mm Power supply 190 mm	RF M10 x 0.75 Male Power Supply blade 2.8 mm

RDA 015-1450 RD/S

AM/FM/DAB+
 - Screw mount
 - Antenna with Flex mast



Dimensions 95 x 55 x 39.7 mm

DAB+

Frequency Range
 Band III: 174 - 240 MHz
 L-Band: 1452 - 1492 MHz

Amplification
 Band III: 15 dB
 L-Band: 10 dB

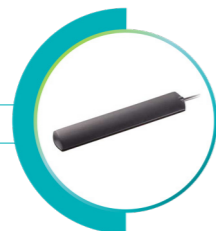
AM/FM

Frequency Range:
 AM: 0.535 - 1.705 MHz
 FM: 87.5 - 108 MHz
 Amplification:
 AM: 0 dB
 FM: 8 dB

Part Number	DAB+	AM/FM
	Cable length Connector	Cable length Connector
	RG 174	
602-452-001	617 mm FME male	325 mm M 10 x 0.75 male

WLAN 24 PA

WLAN/Bluetooth
 - Easy interior windscreen mounting, self-adhesive



Dimensions 115 x 22 mm
 Frequency range
 Bluetooth: 2400 - 2484 MHz
 IEEE Std. 802.11b: 2412 - 2484 MHz
 Gain typ. 2 dBi

Part Number	Cable	Connector
	RG 174 LL	
951-002-001	1500 mm	FAKRAF, I
951-002-006	1500 mm	SMAm

UWB STANDALONE

UWB: 6.0-8.5 GHz
 (Channels 5, 6, 8, 9,
 (10*, 12*))



- UWB Ranging, UWB AoA
 (Angle of Arrival)
 - SMT Compatible
 Dimensions 6.55 x 7.15 x 7.55 mm
 Temperature range -40 to +105 °C

Part Number	CHANNEL 5	CHANNEL 9
	2389095-1	
Frequency range	6.24 to 6.74 GHz	7.73 to 8.24 GHz
Efficiency	> -1.3 dB	> -1.3 dB
Peak Gain	3 dBi	5 dBi
Radiation Properties	Omnidirectional	
Polarization	Linear Vertical	
Impedance	50 Ohm	
Max. Input Power	10 W	

Notes:
 1. Performance data on 30x45 mm² eval ground plane.
 2. Reference plane for measurement is the connector.

* The radiation pattern is omnidirectional for the UWB channels 5, 6, 8, and 9. In addition, the impedance bandwidth spans the channels 10 and 12. The antenna is suitable for the channels 10 and 12 with its radiation pattern being more directional.

WLAN 24 ST

WLAN/Bluetooth
 - Terminal mount
 - Direct mounting on device



Dimensions 10.5 x 50 x 17 mm
 Frequency range
 Bluetooth: 2400 - 2484 MHz
 IEEE Std. 802.11b: 2412 - 2484 MHz
 Gain typ. 2 dBi

Part Number	Cable	Connector
951-012-003	-	SMAm, angled 90°

Other cable lengths and connectors on request.

WLAN 2458 LP S MIMO

WLAN/Bluetooth/DSRC
 - Mounting on various surfaces (e.g. plastic, metal, ...)
 - Screw mount



Dimensions 124 x 80 x 31 mm
 Frequency range 2400 - 2484 MHz
 5150 - 5925 MHz
 Gain typ. 3 dBi

Part Number	WLAN 1	WLAN 2	WLAN 3
	Cable length Connector	Cable length Connector	Cable length Connector
	RG 174 LL		
951-001-001	140 mm SMAm	170 mm SMAm	200 mm SMAm
951-001-002	140 mm SMAm	200 mm SMAm	

C2GN 7038 S MIMO

2G/3G/4G/5G
GLONASS/GPS/Galileo/
BeiDou/QZSS



- Mounting on various surfaces (plastic, metal, ...)
- Screw mount

Dimensions 124 x 80 x 84 mm

CELLULAR

Gain 2 dBi

GNSS

Voltage supply 2.9 - 5.5 VDC
Gain 2 dBic
Amplification 27dB ± 2 dB
Current consumption typ. 13 mA ± 2 mA

Part Number	CELLULAR 1	CELLULAR 2	GNSS
	Cable length Connector	Cable length Connector	Cable length Connector
	RG 174 LL		
951-018-111	200 mm SMAm	200 mm SMAm	200 mm SMAm
951-018-112	3000 mm SMAm	3000 mm SMAm	3000 mm SMAm
951-018-113	5000 mm FAKRAF, Code D	5000 mm FAKRAF, Code Z	5000 mm FAKRAF, Code C

C2GN 7059 M MIMO

2G/3G/4G/5G
GLONASS/GPS/Galileo/
BeiDou/QZSS



- Magnetic mount

Dimensions 121 x 77 x 91 mm

CELLULAR

Gain 2 dBi

GNSS

Voltage supply 2.9 - 5.5 VDC
Gain 2 dBic
Amplification 27 dB ± 2 dB
Current consumption typ. 13 mA ± 2 mA

Part Number	CELLULAR 1 & 2	GNSS
	Cable length Connector	Cable length Connector
	RG 174 LL	
951-028-111	1000 mm SMAm	1000 mm SMAm
951-028-115	5000 mm SMAm	5000 mm SMAm

Other cable lengths and connectors on request.

C2GNW 7059 S MIMO

2G/3G/4G/5G
GLONASS/GPS/Galileo/
BeiDou/QZSS
WLAN/Bluetooth



- Mounting on various surfaces (e.g. plastic, metal, ...)
- Screw mount

Dimensions 124 x 80 x 84 mm

CELLULAR

Gain 2 dBi

GNSS

Voltage supply 2.9 - 5.5 VDC
Gain 2 dBic
Amplification 27 dB ± 2 dB
Current consumption typ. 13 mA ± 2 mA

WLAN/Bluetooth

Frequency range 2400 - 2484 MHz
5150 - 5925 MHz
Gain typ. 2 dBi

Part Number	CELLULAR 1 & 2	GNSS	WLAN
	Cable length Connector	Cable length Connector	Cable length Connector
	RG 174 LL		
951-018-311	200 mm SMAm	200 mm SMAm	200 mm SMAm

C2GNW2 7059 M MIMO

2G/3G/4G/5G
GLONASS/GPS/Galileo/
BeiDou/QZSS
WLAN/Bluetooth



- Magnetic mount

Dimensions 121 x 77 x 91 mm

CELLULAR

Gain 2 dBi

GNSS

Voltage supply 2.9 - 5.5 VDC
Gain 2 dBic
Amplification 27 dB ± 2 dB
Current consumption typ. 13 mA ± 2 mA

WLAN/Bluetooth

Frequency range 2400 - 2484 MHz
5150 - 5925 MHz
Gain typ. 2 dBi

Part Number	Cable	Connector
	RG 174 LL	
951-028-711	1000 mm	CELL 1 SMAm
	1000 mm	CELL 2 SMAm
	1000 mm	GNSS SMAm
	1000 mm	WLAN 1 rpSMAm*
	1000 mm	WLAN 2 rpSMAm*

*rp = reverse polarity

C2GNW2 7059 S MIMO

2G/3G/4G/5G
GLONASS/GPS/Galileo/
BeiDou/QZSS

- Mounting on various surfaces (e.g. plastic, metal, ...)
- Screw mount

Dimensions 124 x 80 x 84 mm

CELLULAR

Gain 2 dBi

GNSS

Voltage supply 2.9 - 5.5 VDC
Gain 2 dBic
Amplification 27 dB ± 2 dB
Current consumption typ. 13 mA ± 2 mA

WLAN/Bluetooth

Frequency range 2400 - 2484 MHz
5150 - 5925 MHz
Gain typ. 2 dBi

Part Number	Cable	Connector
	RG 174 LL	
951-018-711	200 mm	CELL 1 SMAm
	200 mm	CELL 2 SMAm
	200 mm	GNSS SMAm
	200 mm	WLAN 1 rpSMAm*
	200 mm	WLAN 2 rpSMAm*
951-018-715	5000 mm	CELL 1 SMAm
	5000 mm	CELL 2 SMAm
	5000 mm	GNSS SMAm
	5000 mm	WLAN 1 SMAm
	5000 mm	WLAN 2 SMAm

*rp = reverse polarity



C2W 7059 M MIMO

2G/3G/4G/5G
WLAN/Bluetooth

- Magnetic mount

Dimensions 121 x 77 x 91 mm

CELLULAR

Gain 2 dBi

WLAN/Bluetooth

Frequency range 2400 - 2484 MHz
5150 - 5925 MHz
Gain typ. 2 dBi

Part Number	CELLULAR 1 & 2	WLAN
	Cable length Connector	Cable length Connector
	RG 174 LL	
951-028-211	1000 mm SMAm	1000 mm rpSMAm*
951-028-215	5000 mm SMAm	5000 mm rpSMAm*

*rp = reverse polarity



CW2 7059 M MIMO

2G/3G/4G/5G
WLAN/Bluetooth

- Magnetic mount

Dimensions 121 x 77 x 91 mm

CELLULAR

Gain 2 dBi

WLAN/Bluetooth

Frequency range 2400 - 2484 MHz
5150 - 5925 MHz
Gain typ. 2 dBi

Part Number	CELLULAR	WLAN 1 & 2
	Cable length Connector	Cable length Connector
	RG 174 LL	
951-028-411	1000 mm SMAm	1000 mm rpSMAm*

*rp = reverse polarity



CW2 7059 S MIMO

2G/3G/4G/5G
WLAN/Bluetooth

- Mounting on various surfaces (e.g. plastic, metal, ...)
- Screw mount

Dimensions 124 x 80 x 84 mm

CELLULAR

Gain 2 dBi

WLAN/Bluetooth

Frequency range 2400 - 2484 MHz
5150 - 5925 MHz
Gain typ. 2 dBi

Part Number	CELLULAR	WLAN
	Cable length Connector	Cable length Connector
	RG 174 LL	
951-018-411	200 mm SMAm	200 mm SMAm



C2W 7059 S MIMO

2G/3G/4G/5G
WLAN/Bluetooth

- Mounting on various surfaces (e.g. plastic, metal, ...)
- Screw mount

Dimensions 124 x 80 x 84 mm

CELLULAR

Gain 2 dBi

WLAN/Bluetooth

Frequency range 2400 - 2484 MHz
5150 - 5925 MHz
Gain typ. 2 dBi

Part Number	CELLULAR 1 & 2	WLAN
	Cable length Connector	Cable length Connector
	RG 174 LL	
951-018-211	200 mm SMAm	200 mm SMAm



C2W2 7059 M MIMO

2G/3G/4G/5G
WLAN/Bluetooth

- Magnetic mount

Dimensions 121 x 77 x 91 mm

CELLULAR

Gain 2 dBi

WLAN/Bluetooth

Frequency range 2400 - 2484 MHz
5150 - 5925 MHz
Gain typ. 2 dBi

Part Number	CELLULAR 1 & 2	WLAN 1 & 2
	Cable length Connector	Cable length Connector
	RG 174 LL	
951-028-511	1000 mm SMAm	1000 mm rpSMAm*
951-028-515	5000 mm SMAm	5000 mm rpSMAm*



*rp = reverse polarity

Other cable lengths and connectors on request.

C2W2 7059 S MIMO

2G/3G/4G/5G
WLAN/Bluetooth
– Mounting on various surfaces (e.g. plastic, metal, ...)
– Screw mount



Dimensions 124 x 80 x 84 mm

CELLULAR

Gain 2 dBi

WLAN/Bluetooth

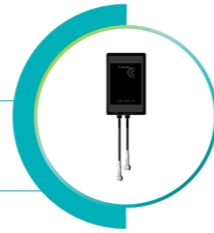
Frequency range 2400 - 2484 MHz
5150 - 5925 MHz
Gain typ. 2 dBi

Part Number	CELLULAR 1 & 2	WLAN 1 & 2
	Cable length Connector	Cable length Connector
	RG 174 LL	
951-018-511	200 mm SMAM	200 mm SMAM
951-018-515	5000 mm SMAM	5000 mm rpSMAM*

*rp = reverse polarity

CG 8524 LP A EXTRA SLIM

2G/3G
GPS/Galileo/QZSS
WLAN/Bluetooth
– Low current consumption
– Mounting on non-conductive surfaces
– Adhesive mount



Dimensions 126 x 54.9 x 7 mm

CELLULAR/WLAN/Bluetooth

Frequency range
GSM 850: 824 - 894 MHz
GSM 900: 880 - 960 MHz
GSM 1800: 1710 - 1880 MHz
GSM 1900: 1850 - 1990 MHz
UMTS: 1920 - 2170 MHz
WLAN/Bluetooth: 2400 - 2484 MHz
Gain
2G: typ. 3 dBi
3G / WLAN / Bluetooth: typ. 3 dBi

GNSS

Voltage supply 2.7 - 5.5 VDC
Gain typ. 1 dBic
Amplification typ. 26 dB ± 2 dB
Current consumption ≤ 13 mA, typ. 10 mA (max 13 mA)

Part Number	CELLULAR/WLAN	GNSS
	Cable length Connector	Cable length Connector
	RG 174	
955-910-101	3000 mm TNCm	3000 mm SMAM
955-910-102	3000 mm FAKRAf, C	3000 mm FAKRAf, D

CGN 7026 LP A

2G/3G/4G
GLONASS/GPS/Galileo/BeiDou/QZSS
– Designed for harsh environment
– Adhesive mount



Dimensions 121 x 77 x 37 mm

CELLULAR

Gain 0 dBi

GNSS

Voltage supply 3 - 5.5 VDC
Gain 1 dBic
Amplification 27 dB ± 1 dB
Current consumption 24 mA ± 1 mA @ 5V

Part Number	CELLULAR	GNSS
	Cable length Connector	Cable length Connector
	RG 174	
920-625-001	3000 mm FAKRAf, D	3000 mm FAKRAf, C

CGN 7026 LP LC P

2G/3G/4G
GLONASS/GPS/Galileo/BeiDou/QZSS
– Mounting on various surfaces (glass, plastic, ...)
– Adhesive mount



Dimensions 102 x 66 x 20 mm

CELLULAR

Gain typ. 0 dBi

GNSS

Voltage supply 2.9 - 5.0 VDC
Gain typ. 2 dBic
Amplification 26 dB ± 2 dB
Current consumption 13 mA ± 2 mA

Part Number	CELLULAR	GNSS
	Cable length Connector	Cable length Connector
	RG 174 LL	
955-179-001	3000 mm FAKRAf, D (waterproof)	3000 mm FAKRAf, C (waterproof)
955-179-002	3000 mm SMAM	3000 mm SMAM
955-179-003	3000 mm FAKRAf, D	3000 mm FAKRAf, Code C
955-179-004	5000 mm FAKRAf, D	5000 mm FAKRAf, C
955-179-005	2500 mm SMBfw, ra	2500 mm MCXm, ra
955-179-006	2500 mm SMAM	2500 mm SMAf, ra
955-179-007	2500 mm MMCXm, ra	2500 mm MMCXm

Other cable lengths and connectors on request.

CGN 7026 LP S

2G/3G/4G
GLONASS/GPS/Galileo/
BeiDou/QZSS

- Designed for harsh environment
- Screw mount

Dimensions 124 x 80 x 31 mm

CELLULAR

Gain 0 dBi

GNSS

Voltage supply 3 - 5.5 VDC
Gain 1 dBic
Amplification 27 dB ± 1 dB
Current consumption 24 mA ± 1mA @ 5 V



CGN 7026 SF S

2G/3G/4G
GLONASS/GPS/Galileo/
BeiDou/QZSS

- Designed for harsh environment
- Screw mount

Dimensions 95 x 57 x 69 mm

CELLULAR

Gain
Low: 0 dBi
High: 3 dBi

GNSS

Voltage supply 3 - 5.5 VDC
Gain typ. 2 dBic
Amplification typ. 21 dB ± 2 dB
Current consumption typ. 35 mA ± 3 mA



Part Number	CELLULAR	GNSS
	Cable length Connector	Cable length Connector
	RG 174	
920-626-001	200 mm FAKRAM, D	200 mm FAKRAM, C
920-626-002	3000 mm FAKRAM, D	3000 mm FAKRAM, C

Part Number	CELLULAR	GNSS
	Cable length Connector	Cable length Connector
	RG 174	
920-641-101	200 mm FAKRAM, D	150 mm FAKRAM, C

Other cable lengths and connectors on request.

CGNW 702659 LP S

2G/3G/4G
GLONASS/GPS/Galileo/
BeiDou/QZSS
WLAN/Bluetooth

- Designed for harsh environment
- Screw mount

Dimensions 124 x 80 x 31 mm

CELLULAR

Gain 0 dBi

GNSS

Voltage supply 3 - 5.5 VDC
Gain 1 dBic
Amplification 27 dB ± 1 dB
Current consumption 24 mA ± 1 mA @ 5 V

WLAN/Bluetooth

Frequency range 2400 - 2484 MHz
5150 - 5925 MHz
Gain typ. 0 dBi



Part Number	CELLULAR	GNSS	WLAN
	Cable length Connector	Cable length Connector	Cable length Connector
	RG 174		
920-630-001	200 mm FAKRAM, D	200 mm FAKRAM, C	200 mm FAKRAM, E
920-630-002	3000 mm FAKRAF, D	3000 mm FAKRAF, C	3000 mm FAKRAF, E

CGNW 702659 SF S

2G/3G/4G
GLONASS/GPS/Galileo/
BeiDou/QZSS
WLAN/Bluetooth

- Mounting on metallic ground
- Screw mount

Dimensions 95 x 57 x 72 mm

CELLULAR

Gain 2.5 dBi

GNSS

Voltage supply 2.9 - 5.5 VDC
Gain typ. 2 dBic
Amplification typ. 27 dB ± 3 dB
Current consumption ≤ 12 mA ± 3 mA @ 3.3 V

WLAN/Bluetooth

Frequency range 2400 - 2484 MHz
5150 - 5925 MHz
Gain 2.5 dBi @ 2.4 GHz
3 dBi @ 5.8 GHz



Part Number	CELLULAR	GNSS	WLAN
	Cable length Connector	Cable length Connector	Cable length Connector
	RG 174		
955-181-001	150 mm SMAM	150 mm SMAM	150 mm SMAM
955-181-002	325 mm FAKRAF, D	305 mm FAKRAF, C	315 mm FAKRAF, E
955-181-003	3000 mm FMEf	3000 mm FMEf	3000 mm FMEf
955-181-004	5000 mm SMAM	5000 mm SMAM	5000 mm SMAM
955-181-005	5000 mm FAKRAF, D	5000 mm FAKRAF, C	5000 mm FAKRAF, E
955-181-006	5000 mm FMEf	5000 mm SMAM	5000 mm FMEf
955-181-007	250 mm FMEf	250 mm SMBf	250 mm SMAM
955-181-008	2000 mm FAKRAF, D	2000mm FAKRAF, C	2000 mm FAKRAF, K
955-181-009	3000 mm SMAM	3000mm SMAM	3000 mm SMAM
955-181-010	5000 mm FAKRAF, D	5000mm FAKRAF, C	5000 mm FAKRAF, K
955-181-011	325 mm FAKRAF, D	325mm FAKRAF, C	325 mm FAKRAF, B
955-181-012	300 mm FAKRAF, D	300 mm FAKRAF, C	300 mm FAKRAF, I

CGNW 852124 LP S

2G/3G
GLONASS/GPS/Galileo/
QZSS/WLAN/Bluetooth

- Low current consumption
- Ground plane independent
- For vertical installation
- Screw mount



Dimensions 162 x 70 x 22 mm

CELLULAR

Gain typ. 2 dBi

GNSS

Voltage supply 2.7 - 5.5 VDC
Gain typ. 2 dBic
Amplification typ. 15 dB, 20 dB max.
Current consumption ≤ 6 mA @ 5 V

WLAN/Bluetooth

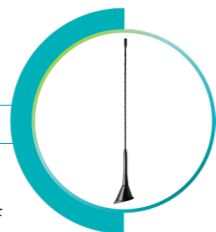
Frequency range 2400 - 2484 MHz
Gain typ. 5 dBi

Part Number	CELL	GNSS	WLAN
	Cable length Connector	Cable length Connector	Cable length Connector
	RG 58 LL	RG 174 LL	
955-162-001	2200 mm FAKRAf, D	2200 mm FAKRAf, C	2200 mm FAKRAf, B

CR 8521 RD S

AM/FM/2G/3G

- Screw Mount
- Detachable anti-noise rod
- Mounted on road vehicle roof



Dimensions 64 x 46 x 47 mm

Gain
AM 10 dB
FM 6 dB

Part Number	CELL	AM/FM
	Cable length Connector	Cable length Connector
	RG 174 LL	
920-445-001	140 +10 mm FMEf	240 +10 mm M10 x 0.75 m

Other cable lengths and connectors on request.

GPS 1890 LP P

2G/3G
GPS/Galileo/QZSS

- Mounting on various surfaces (glass, plastic, metal, ...)
- Adhesive or magnetic mount*



Dimensions 102 x 66 x 20 mm

CELLULAR

Gain typ. 0 dBi

GNSS

Voltage supply 3 - 5.5 VDC
Gain typ. 2 dBic
Amplification typ. 27 dB ± 3 dB
Current consumption ≤ 25 mA @ 5 V

Part Number	CELLULAR	GNSS
	Cable length Connector	Cable length Connector
	RG 174	
920-061-301	3000 mm FMEf	3000 mm SMBf
920-061-302	3000 mm FMEf	3000 mm SMAm
920-061-304	3000 mm SMAm	3000 mm SMAm
920-061-305	3000 mm FAKRAf, D	3000 mm FAKRAf, C

* Magnetic pad order separately, see page 30

GPS 1890 LP S

2G/3G
GPS/Galileo/QZSS

- Mounting on various surfaces (glass, plastic, metal, ...)
- Screw mount



Dimension 100 x 74 x 21 mm

CELLULAR

Gain typ. 0 dBi

GNSS

Voltage supply 3 - 5.5 VDC
Gain typ. 2 dBic
Amplification typ. 27 dB ± 3 dB
Current consumption ≤ 25 mA @ 5 V

Part Number	CELLULAR	GPS
	Cable length Connector	Cable length Connector
	RG 174	
920-062-201	370 mm FMEf	310 mm SMBf
920-062-202	3000 mm SMAm	3000 mm SMAm
920-062-207	3000 mm FAKRAf, D	3000 mm FAKRAf, C

IGNW 24 LP S

IRIDIUM
GLONASS/GPS/Galileo/QZSS
WLAN/Bluetooth

- IRIDIUM certified
- Low current consumption
- Screw mount

Dimensions 124 x 80 x 21 mm

IRIDIUM

Gain typ. 3 dBic

GNSS

Voltage supply 3 - 5.5 VDC
Gain typ. 2 dBic
Amplification typ. 26 dB ± 3 dB
Current consumption ≤ 13 mA @ 5 V ± 5 V (typ. 10 mA)

WLAN/Bluetooth

Frequency range
Bluetooth: 2400 - 2484 MHz
IEEE Std. 802.11b: 2412 - 2484 MHz
Gain 2.5 dBi @ 2.4 GHz
3 dBi @ 5.8 GHz



OG RD S

ORBCOMM
GPS/Galileo/QZSS

- Screw mount
- Antenna rod 405 mm

Dimensions (without rod) 94 x 57 x 42 mm

VHF (ORBCOMM)

Frequency range 137 - 151 MHz
Gain typ. 5 dB

GNSS

Voltage supply 3 - 5.5 VDC
Gain typ. 2 dBic
Amplification typ. 26 ± 3 dB



Part Number	ORBCOMM	GNSS
	Cable length Connector	Cable length Connector
	RG 58	RG 174
956-211-804	320 mm FMEf	320 mm FMEf

Part Number	IRIDIUM	GNSS	WLAN
	Cable length Connector	Cable length Connector	Cable length Connector
	RG 174		
955-056-001 ¹⁾	200 mm SMAm	170 mm SMAm	140 mm SMAm
955-066-002 ²⁾	200 mm SMAm	170 mm SMAm	140 mm SMAm

1) Stainless steel mounting nut with 27 mm wrench size
2) Stainless steel mounting nut with 22 mm wrench size

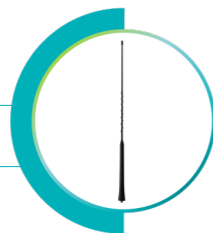
ROD FOR OG RD S

ORBCOMM
2G

Length 405 mm
Thread Antenna rod M5

Part Number

823-174-001



OGC 8521 RD S

ORBCOMM
2G
GPS/Galileo/QZSS

- Antenna base only¹⁾
- Screw mount

Dimensions 95 x 57 x 42 mm

VHF (ORBCOMM)

Frequency range 137 - 151 MHz
Gain typ. 0dB

GNSS

Voltage supply typ. 0 dB

GNSS

Voltage supply 3 - 5.5 VDC
Gain typ. 2 dBic
Amplification typ. 26dB ± 3 dB
Current consumption ≤ 25 mA@5 V ± 0,1 V



Part Number	ORBCOMM	CELLULAR	GNSS
	Cable length Connector	Cable length Connector	Cable length Connector
	RG 174 LL	RG 58 LL ROHS	RG 174 LL
956-210-101	6100 mm FAKRAF, K	6000 mm FAKRAF, D	6050 mm FAKRAF, C

¹⁾ Rod to be ordered separately (955-510-101)

RDA 015 24 RD S/SERIES

AM/FM/DAB

- Scerw mounting
- Different Power option (external or phantom feed)

Dimensions (without rod) 95 x 57 x 40 mm
Frequency range

AM: 0,15 - 1,71 MHz
FM: 87 - 108 MHz
DAB: 174 - 240 MHz



Part Number	AM/FM	DAB
	Cable length Connector	Cable length Connector
	RF RG174	
951-021-001 ¹⁾ without Rod	300 mm FAKRAF, A	300 mm FAKRAF, B
951-021-101 With Rod	300 mm FAKRAF, A	300 mm FAKRAF, B

¹⁾ Rod to be ordered separately (825-062-001)

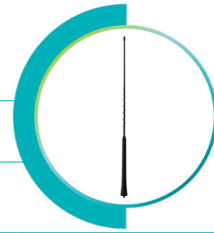
ROD FOR OGC 8521 RD S

ORBCOMM
2G

Length 405 mm
Thread Antenna rod M5

Part Number

955-510-101



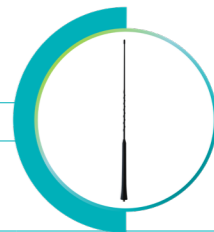
ROD FOR RDA 015 24 RD S/ SERIES

AM/FM/DAB

Length 200 mm
Thread Antenna rod M5

Part Number

825-062-001



TGN 3847 RD S

TETRA
GLONASS/GPS/Galileo/QZSS

- Screw mount
- Antenna rod 170 mm

Dimensions (without rod) 95 x 57 x 40 mm

TETRA

Gain typ. 5.1 dBi

GNSS

Voltage supply 2.9 - 5.5 VDC
Gain typ. 2 dBic
Amplification typ. 27 dB ± 3 dB
Current consumption typ. 12 ± 3 mA

Part Number	TETRA	GNSS
	Cable length Connector	Cable length Connector
	RG 316	RG 174
951-016-141	150 mm FMEf	150 mm SMBf
951-016-145	2500 mm BNC male	2500 mm Fakraf, C



TGNW 3858 RD S

TETRA
GLONASS/GPS/Galileo/QZSS
WLAN/Bluetooth

- Screw mount
- Antenna rod 170 mm

Dimensions (without rod) 95 x 57 x 40 mm

TETRA

Gain typ. 5.1 dBi

GNSS

Voltage supply 2.9 - 5.5 VDC
Gain typ. 2 dBic
Amplification typ. 27 dB ± 3 dB
Current consumption typ. 12 ± 3 mA

WLAN/Bluetooth

Frequency range 2400 - 2484 MHz
5150 - 5925 MHz
Gain typ. 2 dBi

Part Number	TETRA	GNSS	WLAN
	Cable length Connector	Cable length Connector	Cable length Connector
	RG 316	RG 174	DACAR302
951-016-111	150 mm FMEf	150 mm SMBf	150 mm SMAM
951-016-112	2500 mm TNCm	2500 mm SMAM	2500 mm SMAM
951-016-113	4000 mm TNCm	4000 mm SMAM	4000 mm SMAM
951-016-114	1000 mm BNCm	1000 mm SMAM	1000 mm rpSMAM*
951-016-115	2500 mm BNCm	2500 mm Fakraf,C	2500 mm Fakraf, I

*rp = reverse polarity



UWB/BLE COMBO

UWB: 6.0-8.5 GHz
(Channels 5,6,8,9)
BLE: 2.4-2.5 GHz

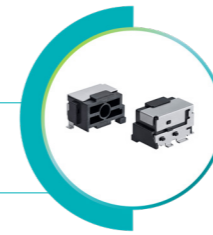
- UWB Ranging, UWB Angle of Arrival, BLE
- SMT Placeable (Tape & Reel)

Dimensions 9.35 x 16.10 x 10.00 mm
Temperature range -40 to + 105 °C

Part Number	BLE	Channel 5	Channel 9
2389101-1			
Frequency range	2.40 to 2.50 GHz	6.24 to 6.74 GHz	7.73 to 8.24 GHz
Efficiency	> -2.5 dB	> -2.0 dB	> -2.0 dB
Peak Gain	2 dBi	5 dBi	5.5 dBi
Radiation Properties	Omnidirectional		
Polarization	Linear Vertical		
Impedance	50 Ohm		
Max. Input Power	10 W		

Notes:

1. Performance data on 60 x 85 mm eval ground plane.
2. Reference plane for measurement is the connector.



WGN 2458 LP S

GLONASS/GPS/Galileo/QZSS
WLAN/Bluetooth

- Mounting on various surfaces (plastic, metal, ...)
- Screw mount

Dimensions 124 x 80 x 31 mm

GNSS

Voltage supply 3 - 5.5 VDC
Gain 4.5 dBic
Amplification 20 dB ± 2 dB @ 3.3 V ± 0.3 V
Current consumption typ. 29 mA @ 3.3 V ± 0.3 V

WLAN/Bluetooth

Frequency range 2400 - 2484 MHz
5755 - 5925 MHz
Gain > 3 dBi

Part Number	GNSS	WLAN
	Cable length Connector	Cable length Connector
	RG 174 LL	
951-003-001	140 mm SMAM	170 mm SMAM



Other cable lengths and connectors on request.

FMEf FMEf



VK-SB SUPER-LOW-LOSS		
Single pack	L ≈	Part Number
	1000 mm	823-122-014
	2000 mm	823-122-015
	3000 mm	823-122-016
	4000 mm	823-122-017
	5000 mm	823-122-018

FMEf SMAm



VK SUPER-LOW-LOSS FMEf/SMAm 500		
1 Piece	L ≈	Part Number
	5000 mm	602-340-001

SMBm SMAm



VK 174 SMBm/SMAm		
1 Piece	L ≈	Part Number
	5000 mm	823-684-005

SMBm SMBf



VK 174 SMBm/SMBf		
1 Piece	L ≈	Part Number
	5000 mm	823-641-005

SMBm FMEf



VK 174 SMBm/FMEf		
1 Piece	L ≈	Part Number
	5000 mm	823-685-005

SMBm FAKRAFZ



VK 174 SMBm/FAKRAF Z		
1 Piece	L ≈	Part Number
	5000 mm	602-404-005

FMEf FAKRAFZ



VK SUPER-LOW-LOSS FMEf/FAKRAF Z		
1 Piece	L ≈	Part Number
	5000 mm	602-406-001

FMEf FMEm



VK RG58 FMEm/FMEf 500		
1 Piece	L ≈	Part Number
	5000 mm	602-405-001

Other cable lengths and connectors on request.

FAKRAF D FAKRAm D



VK 174 FAKRAF D/FAKRAm D		
1 Piece	L ≈	Part Number
	3000 mm	825-051-003
	5000 mm	825-050-003

FAKRAF D FAKRAm C



VK 174 FAKRAF C/FAKRAm C		
1 Piece	L ≈	Part Number
	3000 mm	825-051-004
	5000 mm	825-050-004

FAKRAF D FAKRAm E



VK 174 FAKRAF E/FAKRAm E		
1 Piece	L ≈	Part Number
	3000 mm	825-051-005
	5000 mm	825-050-005

FAKRAF D FAKRAF D



VK 174 FAKRAF D/FAKRAF D		
1 Piece	L ≈	Part Number
	3000 mm	825-385-001
	5000 mm	825-384-001

FAKRAF C FAKRAF C



VK 174 FAKRAF C/FAKRAF C		
1 Piece	L ≈	Part Number
	3000 mm	825-385-002
	5000 mm	825-384-002

FAKRAF E FAKRAF E



VK 174 FAKRAF E/FAKRAF E		
1 Piece	L ≈	Part Number
	3000 mm	825-385-003
	5000 mm	825-384-003



Magnetic Pad	
- For GPS 1890 LP P + CGN 1890 LP LC P - For mounting on metal surfaces	
Part Number	823-122-014



Adhesive Pad	
- For GPS 1890 LP P + CGN 1890 LP LC P - Mounting on various surfaces (glass, plastic, metal, ...)	
Part Number	602-408 001

Other cable lengths and connectors on request.



Remote Tuner Module OTS

Off-the-shelf (OTS) product for radio broadcast reception

Part Number		
EUROPE	US	GLOBAL
920-787-101	920-787-131	920-787-161
AM, FM Phase-Diversity, DAB MRC Diversity, Data Tuner, Seamless Linking	AM, FM Phase-Diversity, HD MRC Diversity, Data Tuner, Seamless Linking (SDARS support on request)	AM, FM Phase-Diversity, Data Tuner

TECHNICAL DATA

Dimensions	120 x 54 x 15 mm
Weight	approx. 190 g
Temperature range	-40°C to +85°C full functionality* +85°C to +95°C reduced functionality**
Power supply input	9.0 – 18.0 V
Phantom supply	8.0 – 10.0 V
Power consumption	typ. 3.2 – 5.0 W
IP Rating	IP5K0

* given a reliable thermal connection to the vehicle body
 ** RTM may gradually turn off features to avoid overheating

PRODUCT FEATURES

Lower System Cost

- AM, FM, DAB and HD Radio Reception
- FM Phase-Diversity, DAB MRC and HD MRC
- Seamless Linking (in Module):
FM-FM, FM-DAB, DAB-DAB, FM-HD
- Data services TMC and TPEG
- Background search on dedicated tuner
- A2B Interface (Ethernet interface on request) for control, audio, data and firmware update
- Software API to control entire functionality of RTM

ANTENNA CONNECTIONS

There are several options depending on the mounting location of the RTM in the vehicle:

Standard:

- Dual FAKRA for distant antenna input

Optional:

- MQS 3pos for direct antenna input, plus
- Single FAKRA for distant antenna input

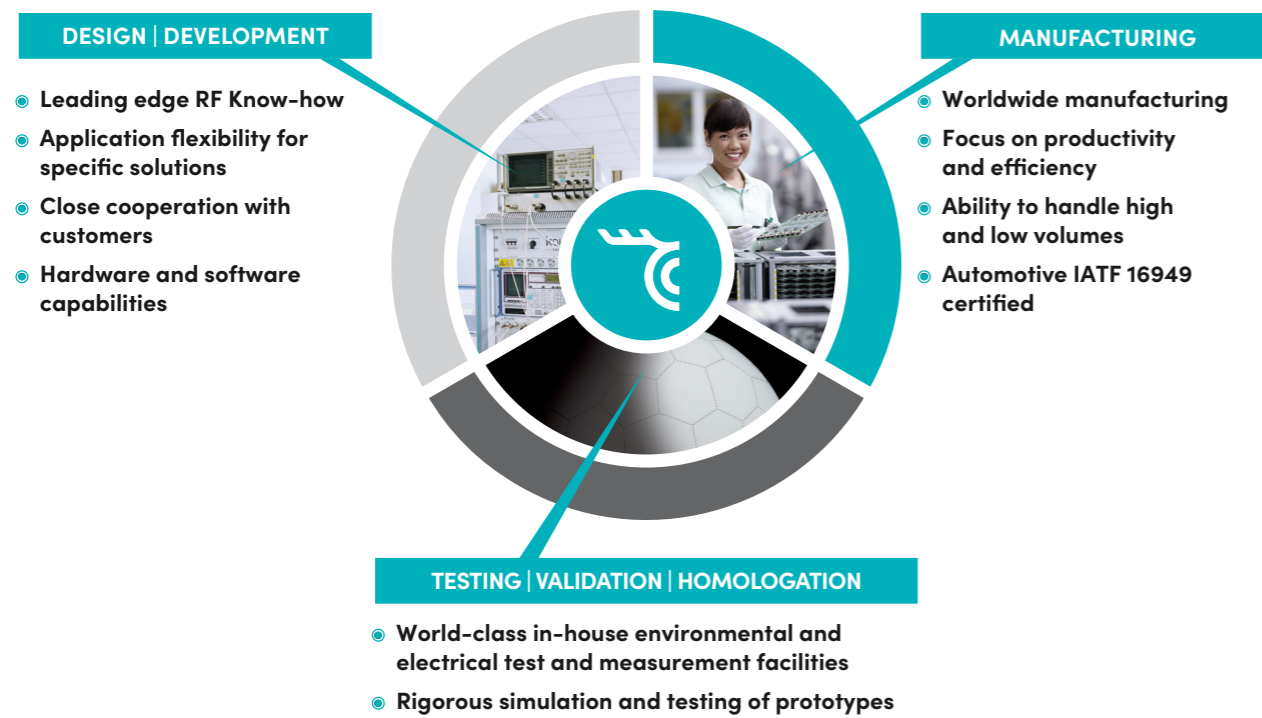
OUR COMPETENCIES

In addition to our standard product portfolio we provide customized solutions and systems according to individual customer requirements.

A solid commitment to Research and Development keeps Hirschmann Car Communication at the forefront of technology. We have world-class, state-of-the-art test and measurement facilities which allow us to carry out rigorous simulations of prototypes followed by a validation and an optimization process to eliminate problems before the product or system goes into use.

Our state-of-the-art manufacturing facility in Germany includes fully automated production facilities whilst our facilities in Hungary, China and the NAFTA regions are able to handle both small and high volumes.

Hirschmann Car Communication products are full of quality from the initial design process all the way through to delivery. We run stringent quality programmes and hold ISO 9001:2015 and ISO/TS 16949:2016. In addition, we are certified to ISO 14001:2004 for environmental testing.



YOUR BENEFITS AT A GLANCE

- Decades of RF technology expertise
- Significant R&D resources
- Advanced simulation methods for prototypes
- Flexible global manufacturing capabilities
- Certified quality and project management
- Wide range of standard products
- Individually tailored solutions
- Strong partnerships with the automotive and commercial vehicles industry
- Competitive prices through strategic locations

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