

# HIRSCHMANN MOBILITY

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## Antennas for Telematics / M2M / IoT Applications





# HIRSCHMANN MOBILITY

## Antennas for Telematics / M2M / IoT Applications

TE Connectivity's HIRSCHMANN MOBILITY products, formerly Hirschmann Car Communication, provide some of the world leading antenna, telematics and infotainment technologies for automobile and commercial vehicles communication and connectivity as well as the broader transportation market.

This catalogue contains products from the standard range in the following four business areas:

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

Antennas and products/accessories for M2M and IoT applications

To get detailed information on these antennas, please visit

[www.te.com/hirschmann-mobility](http://www.te.com/hirschmann-mobility) "Search by part"

### **Commercial and Off-road Vehicles**

Antennas and products/accessories for trucks and off-road applications

### **Infotainment**

Radio Tuner Cards for analog and digital reception (AM/FM/DAB/HD/SDARS)  
for EU/Japan/US markets

### **Automotive Aftermarket**

Broadcast antennas

To receive more information on these or our other products, please visit us at

[www.te.com/hirschmann-mobility](http://www.te.com/hirschmann-mobility) or contact us via email [hirschmann-mobility@te.com](mailto:hirschmann-mobility@te.com)

This catalogue contains products from our European and US portfolio. All products are available worldwide.

For more information please contact us via email:

[hirschmann-mobility@te.com](mailto:hirschmann-mobility@te.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.

**HIRSCHMANN MOBILITY**  
**Antennas for**  
**Telematics/M2M/IoT Applications**

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<b>HIRSCHMANN MOBILITY</b> <b>Antennas for</b> <b>Telematics/M2M/IoT Applications</b>	<b>GNSS</b>	<b>CELL</b>	<b>WLAN / Bluetooth</b>	<b>DSRC</b>	<b>TETRA</b>	<b>IRIDIUM</b>	<b>ORBCOMM</b>	<b>Page</b>
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**HIRSCHMANN MOBILITY**

**Antennas for Telematics/M2M/IoT Applications**

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NOTES



# POSITIONING

## Single Service | GNSS

## 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
	<b>RG 174 LL</b>	
602-431-002	3000 mm	FAKRAf, C

## 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
	<b>RG 174</b>	
956-510-501	200 mm	raSMAm*
956-510-502	200 mm	raMCXm*
956-510-503	200 mm	raMMCXm*

\* ra = right-angled

## 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 - 5.5 VDC
Gain	typ. 2 dBic
Amplification	typ. 27 dB ± 1 dB
Current consumption	≤ 13 mA @ 5 V ± 0.5 V

Part Number	Cable	Connector
	<b>RG 174</b>	
602-439-001	3000 mm	SMAM
602-439-004	5000 mm	FAKRAf, C
602-439-006	3000 mm	SMAM

## 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
	<b>RG 174</b>	
602-442-001	5000 mm	FAKRAf, C
602-442-003	200 mm	SMBf



# TERRESTRIAL COMMUNICATION

## Single Service | Cellular

**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 typ. 0 dBi

Part Number	Cable	Connector
	<b>RG 174 LL</b>	
920-635-001	1000 mm	SMAM

**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 dBi

Part Number	Cable	Connector
	<b>RG 174 LL</b>	
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
	<b>RG 174 LL</b>	
955-006-001	2500 mm	FMEf
955-006-002	2500 mm	SMAM

**CEL 8521 RD M**

2G/3G

- Magnetic mount



Dimensions Ø 29 mm x 90 mm

Gain typ. 2 dBi

Part Number	Cable	Connector
	<b>RG 174</b>	
951-013-001	2500 mm	FMEf
951-013-002	2500 mm	SMAM

**CEL 8521 ST**

2G/3G

- M2M application - telemetering, remote



Dimensions Ø 10.5 mm x 50 x 17 mm

Gain typ. 2 dBi

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

Single Service | Cellular

**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 dBi

Part Number	Cellular 1 & 2
	Connector Cable length
	<b>RG 174 LL</b>
951-018-011	SMAm 200 mm

**CEL2 7038 M MIMO**

2G/3G/4G/5G

- Magnetic mount



Dimensions 121 x 77 x 91 mm

Gain 2 dBi

Part Number	Cellular 1 & 2
	Connector Cable length
	<b>RG 174 LL</b>
951-028-011	SMAm 1000 mm
951-028-015	SMAm 5000 mm

**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
	<b>RG 58 LL</b>	
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. 5.1 dBi

Part Number	Cable	Connector
	<b>RG 58</b>	
602-458-001	5000 mm	FMEf
602-458-002	5000 mm	SMAm

## Combination | Cellular + GNSS

**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
	Connector Cable length	Connector Cable length
	<b>RG 174</b>	
920-625-001	FAKRAf, D 3000 mm	FAKRAf, C 3000 mm

**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
	Connector Cable length	Connector Cable length
	<b>RG 174</b>	
920-641-101	FAKRAm, D 200 mm	FAKRAm, C 150 mm

**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 ± 1 mA @ 5V

Part Number	Cellular	GNSS
	Connector Cable length	Connector Cable length
	<b>RG 174</b>	
920-626-001	FAKRAm, D 200 mm	FAKRAm, C 200 mm
920-626-002	FAKRAf, D 3000 mm	FAKRAf, C 3000 mm

**Combination | Cellular + GNSS**

**CGN 1890 LP S**

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



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

Dimensions 124 x 80 x 21 mm

**Cellular**

Gain typ. 0 dBi

**GNSS**

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

**CGN 1890 LP LC P**

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



- Low current consumption
- Mounting on various surfaces (plastic, metal, ...)
- Adhesive or magnetic mount \*

Dimensions 102 x 66 x 20 mm

**Cellular**

Gain typ. 0 dBi

**GNSS**

Voltage supply 2.7 - 5.5 VDC  
Gain typ. 1 dBic  
Amplification typ. 27 dB ± 1 dB  
Current consumption ≤ 13 mA @ 5 V (typ. 10 mA)

Part Number	Cellular	GNSS
	Connector Cable length	Connector Cable length
	<b>RG 174</b>	
602-434-001	FAKRAf, D 3000 mm	FAKRAf, C 3000 mm
602-434-002	FAKRAf, D 5000 mm	5000 mm

Part Number	Cellular	GNSS
	Connector Cable length	Connector Cable length
	<b>RG 174</b>	
602-440-001	FMEf 3000 mm	SMAm 3000 mm
602-440-002	SMAm 4700 mm	SMAm 4700 mm
602-440-003	FAKRAf, D 5000 mm	FAKRAf, C 5000 mm
602-440-004	FAKRAf, D 3000 mm	FAKRAf, C 3000 mm
602-440-005	SMAm 5000 mm	SMAm 5000 mm
602-440-006	SMAm	SMAm 3000 mm

\* Magnetic pad order separately, see page 40

## Combination | Cellular + GNSS

**GPS 1890 LP S**

2G/3G  
GPS/Galileo/QZSS

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



Dimensions 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

**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	GPS
	Connector Cable length	Connector Cable length
	<b>RG 174</b>	
920-062-201	FME 370 mm	SMBf 310 mm
920-062-202	SMAM 3000 mm	SMAM 3000 mm
920-062-207	FAKRAF, D 3000 mm	FAKRAF, C 3000 mm

Part Number	Cellular	GPS
	Connector Cable length	Connector Cable length
	<b>RG 174</b>	
920-061-301	FME 3000 mm	SMBf 3000 mm
920-061-302	FMEf 3000 mm	SMAM 3000 mm
920-061-304	SMAM 3000 mm	SMAM 3000 mm
920-061-305	FAKRAF, D 3000 mm	FAKRAF, C 3000 mm

\*Magnetic pad order separately, see page 40

**Combination | Cellular + GNSS**

**C2GN 7038 S MIMO**

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

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



**C2GN 7059 M MIMO**

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

- Magnetic 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

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	Cellular 2	GNSS
	Connector Cable length	Connector Cable length	Connector Cable length
	<b>RG 174 LL</b>		
951-018-111	SMAm 200 mm	SMAm 200 mm	SMAm 200 mm
951-018-112	SMAm 3000 mm	SMAm 3000 mm	SMAm 3000 mm
951-018-113	FAKRAF, Code D 5000 mm	FAKRAF, Code Z 5000 mm	FAKRAF, Code C 5000 mm

Part Number	Cellular 1 & 2	GNSS
	Connector Cable length	Connector Cable length
	<b>RG 174 LL</b>	
951-028-111	SMAm 1000 mm	SMAm 1000 mm
951-028-115	SMAm 5000 mm	SMAm 5000 mm

**Combination | Cellular + GNSS****CGN 7026 LP LC P**

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

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



Dimensions 120 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
	Connector Cable length	Connector Cable length
	<b>RG 174 LL</b>	
955-179-001	FAKRAf, D (waterproof) 3000 mm	FAKRAf, C (waterproof) 3000 mm
955-179-002	SMAm 3000 mm	SMAm 3000 mm
955-179-003	FAKRAf, D 3000 mm	FAKRAf, C 5000 mm
955-179-004	FAKRAf, D 5000 mm	FAKRAf, C 5000 mm



**Combination | Cellular + WLAN/Bluetooth**

**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
	Connector	Cable length	Connector Cable length
	<b>RG 174 LL</b>		
951-018-211	SMAM 200 mm	SMAM 200 mm	

**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
	Connector	Cable length	Connector Cable length
	<b>RG 174 LL</b>		
951-028-211	SMAM 1000 mm	SMA-RPm 1000 mm	
951-028-215	SMAM 5000 mm	SMA-RPm 5000 mm	

**Combination | Cellular + WLAN/Bluetooth****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 1 & 2
	Connector Cable length	Connector Cable length
	<b>RG 174 LL</b>	
951-018-411	SMAm 200 mm	SMAm 200 mm

**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
	Connector Cable length	Connector Cable length
	<b>RG 174 LL</b>	
951-028-411	SMAm 200 mm	SMAm 200 mm

**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
	Connector Cable length	Connector Cable length
	<b>RG 174 LL</b>	
951-018-511	SMAm 200 mm	SMAm 200 mm
951-018-515	SMAm 5000 mm	SMA-RPm 5000 mm

**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
	Connector Cable length	Connector Cable length
	<b>RG 174 LL</b>	
951-028-511	SMAm 1000 mm	SMA-RPm 1000 mm
951-028-515	SMAm 5000 mm	SMA-RPm 5000 mm

**Combination | GNSS + WLAN/Bluetooth**

**WGN 2458 LP S**

GLONASS/GPS/Galileo/QZSS  
WLAN/Bluetooth

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



Dimensions 124 mm x 80 mm 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
	Connector Cable length	Connector Cable length
	<b>RG 174 LL</b>	
951-003-001	SMAm 140 mm	SMAm 170 mm

## Combination | Cellular + GNSS + WLAN/Bluetooth

**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 0 dBi

**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  
5755 - 5925 MHz  
Gain 2.5 dBi @ 2.4 GHz  
3 dBi @ 5.8 GHz

Part Number	Cellular	GNSS	WLAN
	Connector Cable length	Connector Cable length	Connector Cable length
	<b>RG 174</b>		
920-630-001	FAKRAm, D 200 mm	FAKRAm, C 200 mm	FAKRAm, E 200 mm
920-630-002	FAKRAf, D 3000 mm	FAKRAf, C 3000 mm	FAKRAf, E 3000 mm

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

**Combination | Cellular + GNSS + WLAN/Bluetooth**

**GPS 2400 LP/Cellular**

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



- Low current consumption
- Screw mount

Dimensions 124 x 80 x 21 mm

**Cellular**

Gain typ. 0 dBi

**GNSS**

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)

**WLAN/Bluetooth**

Frequency range 2400 - 2484 MHz  
Gain typ. 0 dBi

Part Number	CELL	GPS	WLAN
	Connector Cable length	Connector Cable length	Connector Cable length
	<b>RG 174</b>		
602-430-001	SMA m 200 mm	SMAm 170 mm	SMAm 140 mm
602-430-007	MCXm 200 mm	SMBf 170 mm	SMAm 140 mm

**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
	Connector Cable length	Connector Cable length	Connector Cable length
	<b>RG 174 LL</b>		
951-018-311	SMAm 200 mm	SMAm 200 mm	SMAm 200 mm

## Combination | Cellular + GNSS + WLAN/Bluetooth

**C2GNW2 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 1 & 2
	Connector Cable length	Connector Cable length	Connector Cable length
	<b>RG 174 LL</b>		
951-018-711	SMAm 200 mm	SMAm 200 mm	SMAm 200 mm
951-018-715	SMAm 5000 mm	SMAm 5000 mm	SMA-RP m 500 mm

**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	Cellular 1 & 2	GNSS	WLAN 1 & 2
	Connector Cable length	Connector Cable length	Connector Cable length
	<b>RG 174 LL</b>		
951-028-711	SMAm 1000 mm	SMAm 1000 mm	SMA-RPm 1000 mm

**Combination | Cellular + GNSS + WLAN/Bluetooth**

**CGNW2 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	GNSS	WLAN 1 & 2
	Connector Cable length	Connector Cable length	Connector Cable length
	<b>RG 174 LL</b>		
951-018-611	SMAm 200 mm	SMAm 200 mm	SMAm 200 mm

**Combination | Cellular + GNSS + WLAN/Bluetooth****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. 4 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
	Connector	Cable Length	Connector Cable length
	<b>RG 174</b>		
955-910-101	SMAm	3000 mm	SMAm 3000 mm
955-910-102	FAKRAF, D	3000 mm	FAKRAF, C 3000 mm

**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
	Connector Cable length	Connector Cable length	Connector Cable length
	<b>RG 58 LL</b>	<b>RG 174 LL</b>	
955-162-001	FAKRAF, D 2200 mm	FAKRAF, C 2200 mm	FAKRAF, B 2200 mm



Single Service | WLAN/Bluetooth

**MCA 2458 S**

WLAN/Bluetooth/DSRC



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

Dimensions 80 x 80 x 28 mm

Frequency range  
 Bluetooth: 2400 - 2484 MHz  
 IEEE Std. 802.11b: 5150 - 5925 MHz

Gain typ. 3 dBi

Part Number	Cable	Connector
	<b>RG 174 LL</b>	
920-315-002	1000 mm	SMAm

**WLAN 24 ST**

WLAN/Bluetooth



- Terminal mount

Dimensions 10.5 x 50 x 17 mm

Frequency range  
 Bluetooth: 2400 - 2484 MHz  
 IEEE Std. 802.11b: 2412 - 2484 MHz

Gain typ. 2dBi

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

**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. 2dBi

Part Number	Cable	Connector
	<b>RG 174</b>	
951-002-001	1500 mm	FAKRAF, I
951-002-006	1500 mm	SMAm

**WLAN 2458 LP S MIMO**

WLAN/Bluetooth/DSRC



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

Dimensions 124 mm x 80 mm x 31 mm

Frequency range  
 2400 - 2484 MHz  
 5150 - 5925 MHz

Gain typ. 3 dBi

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

**Combination | TETRA + GNSS****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 3 - 5.5 VDC  
Gain typ. 2 dBic  
Amplification typ. 27 dB  $\pm$  3 dB  
Current consumption  $\leq$  25 mA

Part Number	TETRA	GNSS
	Connector Cable length	Connector Cable length
	<b>RG 316</b>	<b>RG 174</b>
951-016-141	FMEf 150 mm	SMBf 150 mm

**Combination | TETRA + GNSS + WLAN/Bluetooth**

**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 3 - 5.5 VDC  
Gain typ. 2 dBic  
Amplification typ. 27 dB ± 3 dB  
Current consumption ≤ 25 mA

**WLAN/Bluetooth**

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

Part Number	TETRA	GNSS	WLAN
	Connector Cable length	Connector Cable length	Connector Cable length
	<b>RG 316</b>	<b>RG 174</b>	<b>DACAR302</b>
951-016-111	FMEf 150 mm	SMBf 150 mm	SMAm 150 mm
951-016-112	TNCm 2500 mm	SMAm 2500 mm	SMAm 2500 mm
951-016-113	TNCm 4000 mm	SMAm 4000 mm	SMAm 4000 mm

NOTES



# SATELLITE COMMUNICATION

## Single Service | IRIDIUM

## IRD LP M

IRIDIUM

- IRIDIUM certified
- Adhesive pad on request
- Magnetic mount



Dimensions 63 x 63 x 18 mm

Frequency range 1616 - 1626.5 MHz  
Gain typ. 3 dBic

Part Number	Cable	Connector
	<b>RG 174 LL</b>	
955-047-001	1500 mm	TNCm
955-047-002	1500 mm	SMAm
955-047-005	2500 mm	SMAm
	<b>RG 58 LL</b>	
956-310-801	4570 mm	TNCm
956-310-802	5500 mm	SMAm
956-310-803	5500 mm	rpTNCf*
956-310-806	5500 mm	TNCm

\*rp = reverse polarity

## 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
	<b>RG 174 LL</b>	
955-048-001	150 mm	SMAm
955-048-002	200 mm	TNCm

## 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
	<b>RG 174 LL</b>	
956-311-101	150 mm	SMAm
956-311-102	500 mm	SMAm

**Combination | IRIDIUM + GNSS + Cellular**

**IGNC 8521 SF S**

IRIDIUM  
2G/3G  
GLONASS/GPS/Galileo/QZSS

- IRIDIUM certified
- Low current consumption
- Screw mount



Dimensions 124 x 80 x 69 mm

**IRIDIUM**

Frequency range 1616 - 1626.5 MHz  
Gain typ. 3 dBic

**GNSS**

Voltage supply 3 - 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)

**Cellular**

Gain typ. ≥ 3 dBi

Part Number	IRIDIUM	GNSS	Cellular
	Connector Cable length	Connector Cable length	Connector Cable length
	<b>RG 174</b>		
956-310-501	SMAm 200 mm	SMAm 170 mm	SMAm 140 mm
956-310-502	SMAm 2000 mm	SMAm 2000 mm	SMAm 2000 mm
956-310-503	SMAm 600 mm	SMAm 570 mm	SMAm 540 mm

**Combination | IRIDIUM + GNSS + WLAN/Bluetooth****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 typ. 0 dB

Part Number	IRIDIUM	GNSS	WLAN
	Connector Cable length	Connector Cable length	Connector Cable length
	<b>RG 174</b>		
955-056-001 <sup>1)</sup>	SMAM 200 mm	SMAM 170 mm	SMAM 140 mm
955-066-001 <sup>2)</sup>	SMAM 200 mm	SMAM 170 mm	SMAM 140 mm

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



**Single Service | ORBCOMM**

**ORB RD S**

ORBCOMM

- Screw mount
- Antenna rod 405 mm



Dimensions (without rod) 94 x 57 x 38 mm

Frequency range 137 - 151 MHz

Gain typ. 5 dBi

Part Number	Cable	Connector
	<b>RG 58</b>	
956-211-401	7620 mm	SMAm

**Combination | ORBCOMM + GNSS****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 dBi

**GNSS**

Voltage supply 3 - 5.5 VDC  
Gain typ. 2 dBic  
Amplification typ. 27 dB ± 3 dB

Part Number	ORBCOMM	GNSS
	Connector Cable length	Connector Cable length
	<b>RG 58</b>	<b>RG 174</b>
956-211-804	FMEem 320 mm	FMEf 320 mm

**Combination | ORBCOMM + GNSS + Cellular**

**OGC 8521 RD S**

ORBCOMM  
2G  
GPS/Galileo/QZSS



- Antenna base only <sup>1)</sup>
- Screw mount

Dimensions 95 x 57 x 42 mm

**VHF (ORBCOMM)**

Frequency range 137 - 151 MHz  
Gain typ. 0 dB

**Cellular**

Gain typ. 0 dB

**GNSS**

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

**Rod for OGC 8521 RD S**

ORBCOMM  
2G

Length 405 mm  
Thread Antenna rod M5

Part Number	
955-510-101	



Part Number	ORBCOMM	Cellular	GNSS
	Connector Cable length	Connector Cable length	Connector Cable length
	<b>RG 174</b>	<b>RG 58 LL</b>	<b>RG 174</b>
956-210-101	FAKRAF, K 6100 mm	FAKRAF, D 6000 mm	FAKRAF, C 6050 mm

<sup>1)</sup> Rod to be ordered separately (955-510-101)

NOTES



# ACCESSORIES

## Connecting Cables

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

Connecting Cables

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 C



FAKRAM C



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

FAKRAF E



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 / Adhesive Pads****Magnetic Pad**

- For GPS 1890 LP P + CGN 1890 LP LC P
- For mounting on metal surfaces

<b>Part Number</b>	821-049-001
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**Adhesive Pad**

- For GPS 1890 LP P + CGN 1890 LP LC P
- Mounting on various surfaces (glass, plastic, metal, ...)

<b>Part Number</b>	602-408 001
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- Antenna interface via FAKRA connection
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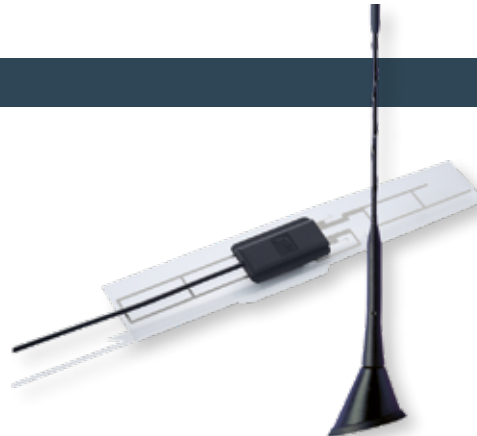


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