



# HIRSCHMANN MOBILITY 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**

From antennas to complete systems as container and trailer tracking

### **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.

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

Antennas for:

GPS	GLONASS	Galileo	LTE	GSM	UMTS	WLAN/Bluetooth	DSRC	TETRA	IRIDIUM	ORBCOMM	AM/FM	Page
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**1 POSITIONING**

**Single Service | GNSS**

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**Combination GNSS + Radio Services**

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**Combination Cellular + GNSS**

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## Antennas for Telematics/M2M/IoT Applications

Antennas for:

GPS	GLONASS	Galileo	LTE	GSM	UMTS	WLAN/Bluetooth	DSRC	TETRA	IRIDIUM	ORBCOMM	AM/FM	Page
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### 2 TERRESTRIAL COMMUNICATION

#### Combination | Cellular + GNSS

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#### Combination | Cellular + WLAN/Bluetooth

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#### Combination | GNSS + WLAN/Bluetooth

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

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MCA 480 FLEX								●				20
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## Antennas for Telematics/M2M/IoT Applications

Antennas for:

	GPS	GLONASS	Galileo	LTE	GSM	UMTS	WLAN/Bluetooth	DSRC	TETRA	IRIDIUM	ORBCOMM	AM/FM	Page
<b>Combination   TETRA + GNSS</b>													
TGN 3847 RD S	●	●	●						●				21
<b>Combination   TETRA + GNSS + WLAN/Bluetooth</b>													
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#### Combination | IRIDIUM + GNSS

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#### Combination | IRIDIUM + GNSS + Cellular

IGNC 8521 SF S	●	●			●	●				●			26
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#### Combination | IRIDIUM + GNSS + WLAN/Bluetooth

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#### Single Service | ORBCOMM

ORB RD S											●		28
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#### Combination | ORBCOMM + GNSS

OG RD S	●										●		29
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#### Combination | ORBCOMM + GNSS + Cellular

OGC 8521 RD S	●				●						●		30
Rod for OGC 8521 RD S					●						●		30

### 4 ACCESSORIES

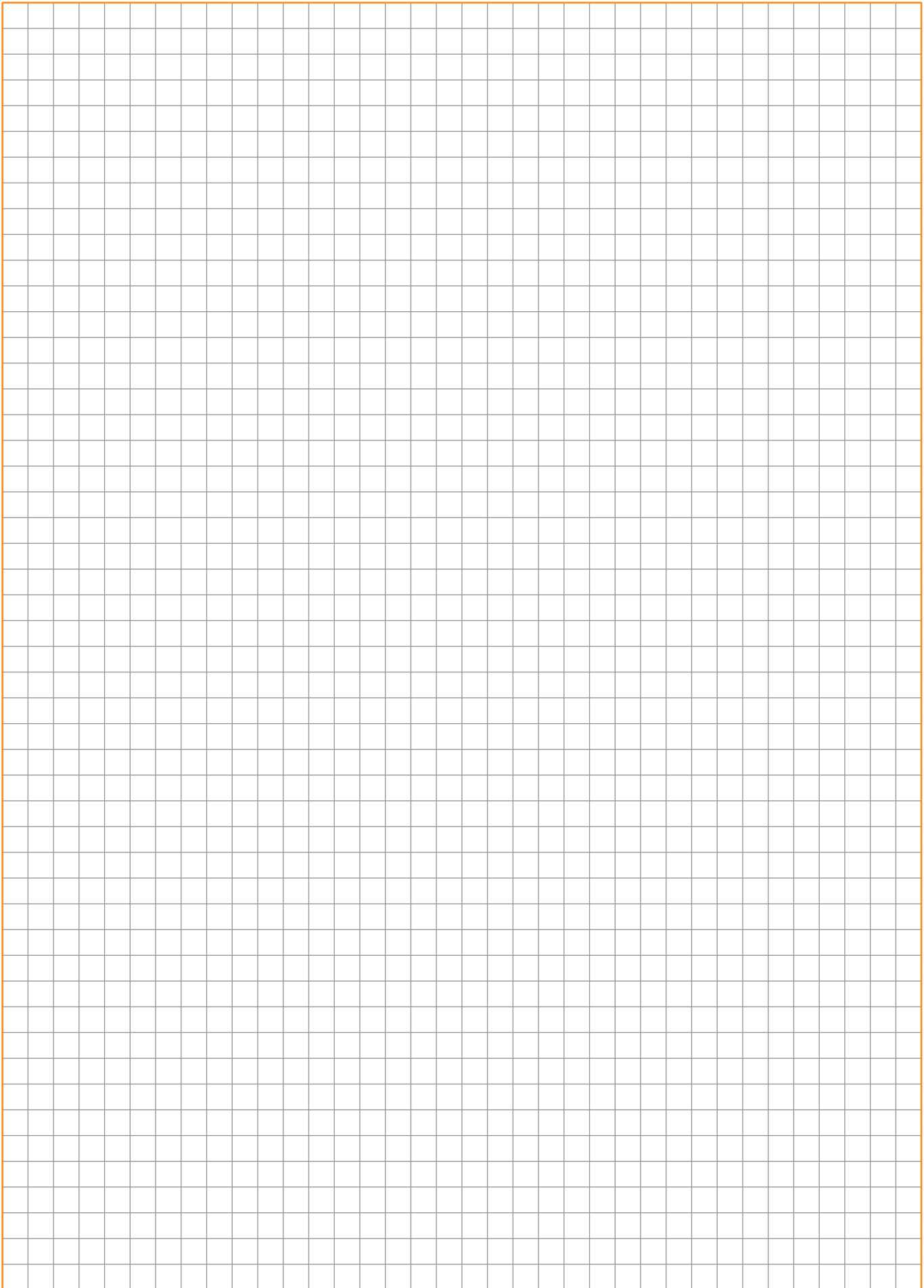
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# Positioning

## Single Service | GNSS

**GPS 10 P**

GPS

- Low current consumption
- Adhesive mount



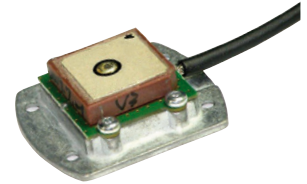
Dimensions	34 x 38 x 12.8 mm
Voltage supply	2.7 - 5.5 VDC
Gain	typ. 2 dBic
Amplification	typ. 26 dB ± 2 dB
Current consumption	≤ 13 mA @ 5 V ± 0.5 V (typ. 10 mA)

Part Number	Cable	Connector
	<b>RG 174 LL</b>	
602-431-001	3000 mm	SMAm
602-431-002	3000 mm	FAKRAf, C
602-431-003	7000 mm	SMBm

**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, Code 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, Code C
602-442-003	200 mm	SMBf



**GPS MULTI S**

68 - 86 MHz / 144 - 176 MHz /  
380 - 470 MHz / 410 - 430 MHz /  
450 - 470 MHz / 880 - 960 MHz /  
1710 - 1880 MHz

- Screw mount
- For GPS/several radio services



Dimensions  $\varnothing$  65 mm x 25 mm

**GPS**

Voltage supply 3 - 5 VDC  
Gain typ. 5 dBic  
Amplification typ. 27 dB

Part Number	GPS		RADIO SERVICES	
	Cable	Connector	Cable	Connector
	<b>RG 174</b>			
920-420-001	296 mm	SMBf	310 mm	FMEem

**GPS MULTI M**

68 - 86 MHz / 144 - 176 MHz /  
380 - 470 MHz / 410 - 430 MHz /  
450 - 470 MHz / 880 - 960 MHz /  
1710 - 1880 MHz

- Magnetic mount
- For GPS/several radio services



Dimensions  $\varnothing$  66 mm x 24.5 mm

**GPS**

Voltage supply 3 - 5 VDC  
Gain typ. 5 dBic  
Amplification typ. 27 dB

Part Number	GPS		RADIO SERVICES	
	Cable	Connector	Cable	Connector
	<b>RG 174</b>			
920-421-001	6000 mm	SMBf	6000 mm	FMEem

**Rods for GPS MULTI**



**Flexradiator**

Length	146 mm
Thread antenna rod	M5
Gain	typ. 0 dB
Frequency range	137 - 151 MHz ORBCOMM

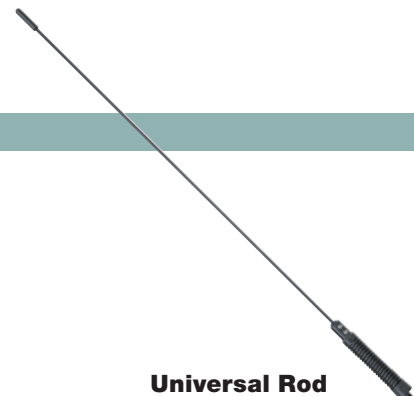
Part Number
602-411-001



**Rod**

Length	63 mm
Thread antenna rod	M5
Gain	typ. 0 dB
Frequency range	GSM 850 GSM 900 GSM 1800 GSM 1900 UMTS

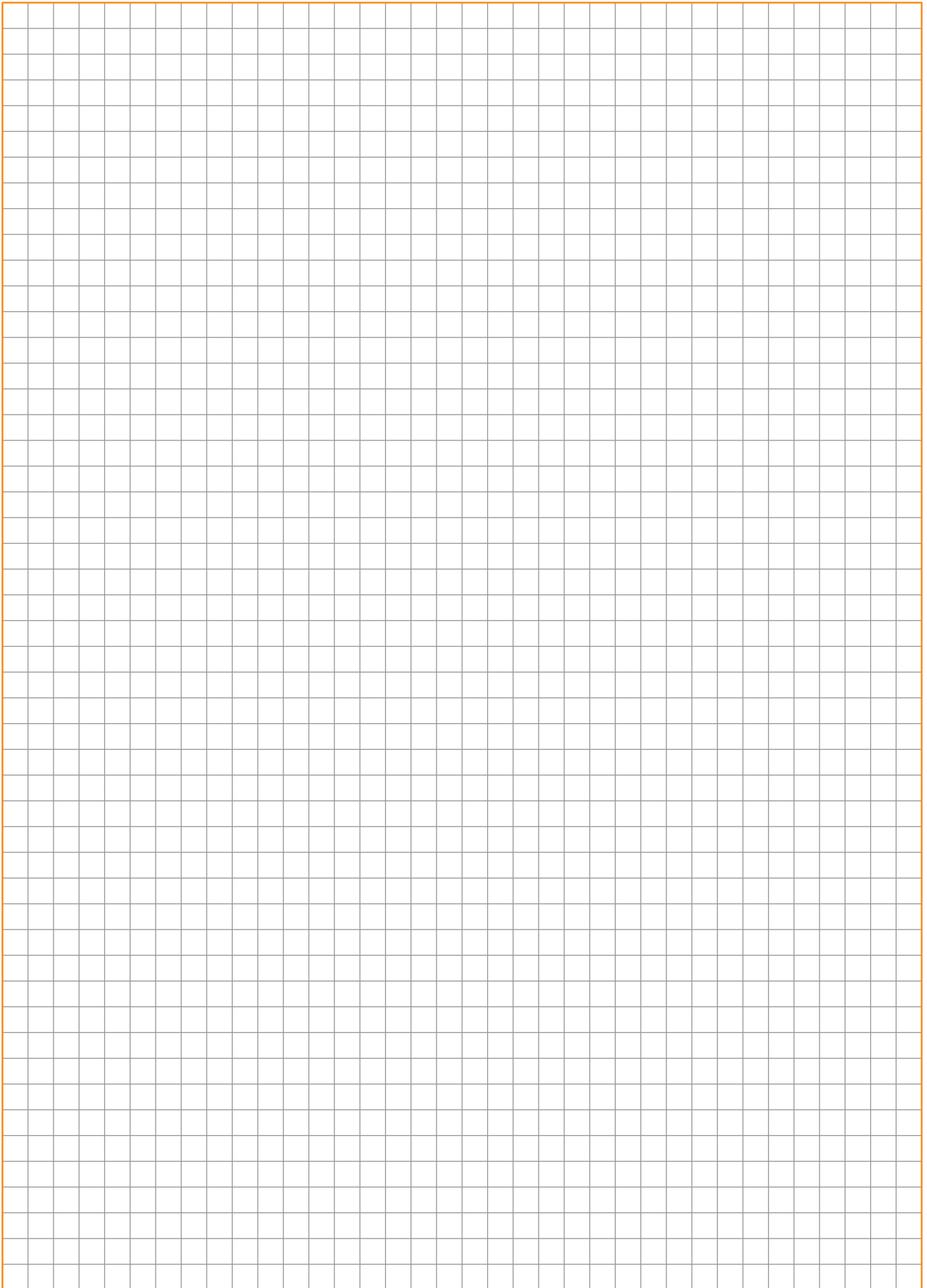
Part Number
825-097-001



**Universal Rod**

Length	tuneable
Thread antenna rod	M5
Gain	typ. 0 dB
Frequency range	68 - 470 MHz tuneable • 4 m-band (68-86 MHz) • 2 m-band (144-176 MHz) • 70 cm-band (380-470 MHz) - Telephone - TETRA - ISM 433

Part Number
823-688-001



# Terrestrial Communication

## Single Service | Cellular

**CEL 7026 LP S**

LTE 698-862 / 2305-2690  
GSM 850 / GSM 900 / 1800 / 1900  
UMTS

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



Dimensions 80 x 80 x 31 mm

## Cellular (2G/3G/4G)

Gain typ. 0 dBi

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

**CEL 7026 A**

LTE 698-862 / 2305-2690  
GSM 850 / GSM 900 / 1800 / 1900  
UMTS

- Easy interior and exterior windscreen mounting, self-adhesive



Dimensions 107 x 54 x 3.5 mm

## Cellular (2G/3G/4G)

Gain typ. 2.15 dBi

Part Number	Cable	Connector
	<b>RG 174 LL</b>	
920-409-001	3000 mm	FAKRAf, Code D
920-409-002	3000 mm	SMAm

**CEL 7026 RD M**

LTE 698-862 / 2305-2690  
GSM 850 / GSM 900 / 1800 / 1900  
UMTS

- 2G through 4G/LTE service
- Magnetic mount



Dimensions  $\varnothing$  30 x 91.4 mm

## Cellular (2G/3G/4G)

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**

GSM 850 / GSM 900 / 1800 / 1900  
UMTS

- Magnetic mount



Dimensions  $\varnothing$  29 mm x 90 mm

## Cellular (2G/3G)

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**

GSM 850 / GSM 900 / 1800 / 1900  
UMTS



- M2M application - telemetering, remote

Dimensions  $\varnothing$  10.5 mm x 50 x 17 mm

Cellular (2G/3G)  
Gain typ. 2 dBi

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

**CEL 7038 S MIMO**

5G READY

5G 3300-3800  
LTE 698-862 / 2305-2690  
GSM 850 / 900 / 1800 / 1900  
UMTS 2100



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

Dimensions 124 x 80 x 84 mm

Cellular (2G/3G/4G)  
Gain 2 dBi

Part Number	Cable	Connector
	<b>RG 174 LL</b>	
951-018-001	200 mm	SMAm

**CEL 8026 BASE**

LTE 790-960 / 2305-2690  
GSM 850 / 900 / 1800 / 1900  
UMTS



- Outdoor antenna
- For fix mast and wall mounting

Dimensions (without bracket) 154 x 134 x 46 mm

Cellular (2G/3G/4G)  
Gain typ. 9 dBi

Part Number	Cable	Connector
	<b>RG 58 LL</b>	
602-456-001	5000 mm	SMAm

**CEL 8026 STAT**

LTE 790-862 / 2305-2690  
GSM 850 / 900 / 1800 / 1900  
UMTS



- Outdoor antenna
- For fix wall mounting

Dimensions (without bracket) 275 x 16 mm

Cellular (2G/3G/4G)  
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

## Single Service | Cellular

**MCA 1890 STRIPE**GSM 850 / GSM 900 / 1800 / 1900  
UMTS

- Easy interior windscreen mounting, self-adhesive

Dimensions 12 x 130 mm

Cellular (2G/3G)

Gain typ. 2.1 dBi

Part Number	Cable	Connector
	<b>RG 174</b>	
602-335-002	2500 mm	FMEf

**MCA 1890 SLIM**GSM 850 / GSM 900 / 1800 / 1900  
UMTS

- Easy interior windscreen mounting, self-adhesive

Dimensions 22 x 115 mm

Cellular (2G/3G)

Gain typ. 0 dBi

Part Number	Cable	Connector
	<b>RG 174</b>	
602-311-002	2500 mm	FMEf

**MCA 1890 MP**GSM 850 / GSM 900 / 1800 / 1900  
UMTS

- Easy interior windscreen mounting, self-adhesive

Dimensions  $\varnothing$  57 mm

Cellular (2G/3G)

Gain typ. 2.1 dBi

Part Number	Cable	Connector
	<b>RG 174</b>	
602-317-002	2500 mm	FMEf
602-317-003	2500 mm	SMAM



**CGN 7026 LP A**

LTE 698-862 / 2305-2690  
GSM 850 / GSM 900 / 1800 / 1900  
UMTS  
GLONASS / GPS



- Designed for harsh environment
- Adhesive mount

Dimensions 121 x 77 x 37 mm

**Cellular (2G/3G/4G)**

Gain 0 dBi

**GLONASS/GPS**

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	Connector	Cable	Connector
	<b>RG 174</b>			
920-625-001	3000 mm	FAKRAF, Code D	3000 mm	FAKRAF, Code C

**CGN 7026 LP S**

LTE 698-862 / 2305-2690  
GSM 850 / GSM 900 / 1800 / 1900  
UMTS  
GLONASS / GPS



- Designed for harsh environment
- Screw mount

Dimensions 124 x 80 x 31 mm

**Cellular (2G/3G/4G)**

Gain 0 dBi

**GLONASS/GPS**

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	Connector	Cable	Connector
	<b>RG 174</b>			
920-626-001	200 mm	FAKRAM, Code D	200 mm	FAKRAM, Code C
920-626-002	3000 mm	FAKRAF, Code D	3000 mm	FAKRAF Code C

**CGN 7026 SF S**

LTE 698-862 / 2305-2690  
GSM 850 / GSM 900 / 1800 / 1900  
UMTS  
GLONASS/GPS



- Designed for harsh environment
- Screw mount

Dimensions 95 x 57 x 69 mm

**Cellular (2G/3G/4G)**

Gain  
LTE: 0 dBi  
CEL: 3 dBi

**GLONASS / GPS**

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

Part Number	Cellular		GNSS	
	Cable	Connector	Cable	Connector
	<b>RG 174</b>			
920-641-101	200 mm	FAKRAM Code D	150 mm	FAKRAM Code C

## Combination | Cellular + GNSS

**CGN 1890 LP S**

GSM 850 / GSM 900 / 1800 / 1900  
UMTS  
GLONASS / GPS



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

Dimensions 124 x 80 x 21 mm

**Cellular (2G/3G)**

Gain typ. 0 dBi

**GLONASS/GPS**

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**

GSM 850 / GSM 900 / 1800 / 1900  
UMTS  
GLONASS / GPS



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

Dimensions 102 x 66 x 20 mm

**Cellular (2G/3G)**

Gain typ. 0 dBi

**GLONASS/GPS**

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	
	Cable	Connector	Cable	Connector
	<b>RG 174</b>			
602-434-001	3000 mm	FAKRAf, Code D	3000 mm	FAKRAf, Code C
602-434-002	5000 mm	FAKRAf, Code D	5000 mm	FAKRAf, Code C

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

\*Magnetic pad order separately, see page 35



**GPS 1890 LP S**

GSM 850 / GSM 900 / 1800 / 1900  
UMTS  
GPS



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

Dimensions 100 x 74 x 21 mm

**Cellular (2G/3G)**

Gain typ. 0 dBi

**GPS**

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**

GSM 850 / GSM 900 / 1800 / 1900  
UMTS  
GPS



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

Dimensions 102 x 66 x 20 mm

**Cellular (2G/3G)**

Gain typ. 0 dBi

**GPS**

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	Connector	Cable	Connector
	<b>RG 174</b>			
920-062-201	370 mm	FMEf	310 mm	SMBf
920-062-202	3000 mm	SMAm	3000 mm	SMAm
920-062-207	3000 mm	FAKRAf, Code D	3000 mm	FAKRAf, Code C

Part Number	Cellular		GPS	
	Cable	Connector	Cable	Connector
	<b>RG 174</b>			
920-061-301	3000 mm	FMEf		
920-061-302	3000 mm	FMEf	3000 mm	SMAm
920-061-304	3000 mm	SMAm	3000 mm	SMAm
920-061-305	3000 mm	FAKRAf, Code D	3000 mm	FAKRAf, Code C

\*Magnetic pad order separately, see page 35

## Combination | Cellular + GNSS

**CGN 7038 S MIMO****5G READY**

5G 3300-3800  
 LTE 698-862 / 2305-2690  
 GSM 850 / 900 / 1800 / 1900  
 UMTS 2100  
 GLONASS / GPS / Galileo



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

Dimensions 124 x 80 x 84 mm

**Cellular (2G/3G/4G/5G)**

Gain 2 dBi

**GLONASS/GPS/Galileo**

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		GNSS	
	Cable	Connector	Cable	Connector
	<b>RG 174 LL</b>			
951-018-101	200 mm	SMAM	200 mm	SMAM
951-018-102	3000 mm	SMAM	3000 mm	SMAM

**CG 8521 LP S**

GSM 850 / GSM 900 / 1800 / 1900  
 UMTS  
 GPS



- Ground plane independent
- For vertical installation
- Screw mount

Dimensions 162 x 70 x 22 mm

**Cellular (2G/3G)**

Gain typ. 2 dBi

**GPS**

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

Part Number	Cellular		GPS	
	Cable	Connector	Cable	Connector
	<b>RG 58 LL</b>		<b>RG 174 LL</b>	
955-019-001	6100 mm	SMAM	6100 mm	SMAM

**CGN 7026 LP LC P**

LTE 698-960 / 1710-2700  
 GSM 850 / GSM 900 / 1800 / 1900  
 UMTS  
 GLONASS / GPS



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

Dimensions 120 x 66 x 20 mm

**Cellular (2G/3G/4G)**

Gain typ. 0 dBi

**GLONASS/GPS**

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

**CW 7059 S MIMO**

5G READY

5G 3300-3800  
LTE 698-862 / 2305-2690  
GSM 850 / 900 / 1800 / 1900  
UMTS 2100  
WLAN / Bluetooth



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

Dimensions 124 x 80 x 84 mm

**Cellular (2G/3G/4G/5G)**

Gain 2 dBi

**WLAN + Bluetooth**

Frequency range 2400 - 2484 MHz

5150 - 5925 MHz

Gain typ. 2 dBi

Part Number	Cellular		WLAN	
	Cable	Connector	Cable	Connector
	<b>RG 174 LL</b>			
951-018-201	200 mm	SMAm	200 mm	SMAm

**Combination | GNSS + WLAN/Bluetooth****WGN 2458 LP S**

GLONASS/GPS/Galileo  
WLAN / Bluetooth



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

Dimensions 124 mm x 80 mm x 31 mm

**GLONASS/GPS/Galileo**

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

**CGNW 702659 LP S**

LTE 698-862 / 2305 - 2690  
GSM 850 / 900 / 1800 / 1900  
UMTS  
GLONASS / GPS  
WLAN / Bluetooth



- Designed for harsh environment
- Screw mount

Dimensions 124 x 80 x 31 mm

**Cellular (2G/3G/4G)**

Gain 0 dBi

**GLONASS/GPS**

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**

LTE 698-862 / 2305 - 2690  
GSM 850 / 900 / 1800 / 1900  
UMTS  
GLONASS / GPS  
WLAN / Bluetooth



- Mounting on metallic ground
- Screw mount

Dimensions 95 x 57 x 72 mm

**Cellular (2G/3G/4G)**

Gain 2.5 dBi

**GLONASS/GPS**

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

**GPS 2400 LP/Cellular**

GSM 850 / GSM 900 / 1800 / 1900  
 UMTS  
 GPS  
 WLAN / Bluetooth



- Low current consumption
- Screw mount

Dimensions 124 x 80 x 21 mm

**Cellular (2G/3G)**

Gain typ. 0 dBi

**GPS**

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

**CGNW 7059 S MIMO**
**5G READY**

5G 3300-3800  
 LTE 698-862 / 2305-2690  
 GSM 850 / 900 / 1800 / 1900  
 UMTS 2100  
 GLONASS / GPS / Galileo  
 WLAN / Bluetooth



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

Dimensions 124 x 80 x 84 mm

**Cellular (2G/3G/4G/5G)**

Gain 2 dBi

**GLONASS/GPS/Galileo**

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
	Connector Cable length	Connector Cable length	Connector Cable length
	<b>RG 174 LL</b>		
951-018-301	SMAm 200 mm	SMAm 200 mm	SMAm 200 mm

**CG 8524 LP A Extra Slim**

GSM 850 / GSM 900 / 1800 / 1900  
UMTS  
GPS  
WLAN / Bluetooth



- Low current consumption
- Mounting on non-conductive surfaces
- Adhesive mount

Dimensions 126 x 54.9 x 7 mm

**Cellular (2G/3G) / 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

GSM 850/CDMA 800/GSM 900: typ. 3 dBi  
GSM 1800/PCS/CDMA 1800/  
UMTS/WLAN: typ. 4 dBi

**GPS**

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		GPS
	Cable	Connector	Connector
	<b>RG 174</b>		
955-910-101	3000 mm	SMAM	SMAM
955-910-102	3000 mm	FAKRAF, Code D	FAKRAF, Code C

**CGNW 852124 LP S**

GSM 850 / GSM 900 / 1800 / 1900  
UMTS  
GLONASS/GPS  
WLAN / Bluetooth



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

Dimensions 162 x 70 x 22 mm

**Cellular (2G/3G)**

Gain typ. 2 dBi

**GLONASS/GPS**

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 2400 - 2484 MHz  
 5150 - 5925 MHz  
 Gain typ. 3 dBi

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

**MCA 2400 PA**

WLAN / Bluetooth

- Easy interior windscreen mounting, self-adhesive



Dimensions 57 x 77 x 10 mm  
 Frequency range 2300 – 2500 MHz  
 Gain typ. 2.1 dBi

Part Number	Cable	Connector
	<b>RG 174</b>	
602-399-001	3000 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, Code 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	

## Single Service | TETRA

**MCA 480 FLEX**

TETRA

- Additional TETRA frequency  
808 - 870 MHz
- Easy interior windscreen mounting,  
self-adhesive



Dimensions	20 x 244 x 5 mm
Frequency range	380 - 430 MHz 808 - 870 MHz
Gain	typ. 2.1 dBi

Part Number	Cable	Connector
	<b>RG 174</b>	
920-013-001	2500 mm	FMEf

**TGN 3847 RD S**

TETRA  
GLONASS/GPS/Galileo

- Mounting on various surfaces (plastic, metal, ...)
- Screw mount
- Antenna rod 170 mm



Dimensions (without rod)            95 x 57 x 40 mm

**TETRA**

Gain                                        typ. 5.1 dBi

**GLONASS/GPS/Galileo**

Voltage supply                        3 - 5.5 VDC

Gain                                        typ. 2 dBic

Amplification                        typ. 27 dB ± 3 dB

Current consumption                ≤ 25 mA

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

**TGNW 3858 RD S**

TETRA  
 GLONASS/GPS/Galileo  
 WLAN / Bluetooth

- Mounting on various surfaces  
 (plastic, metal, ...)
- Screw mount
- Antenna rod 170 mm



Dimensions (without rod)      95 x 57 x 40 mm

**TETRA**

Gain      typ. 5,1 dBi

**GLONASS/GPS/Galileo**

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

# 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
955-047-004	125 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*
956-310-804	2500 mm	SMAm
956-310-805	5500 mm	SMBf
956-310-806	5500 mm	TNCm

\*rp = reverse polarity

**IRD LP S**

IRIDIUM

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



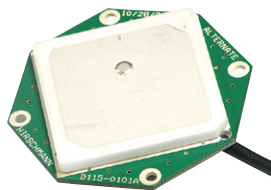
Dimensions 63 x 63 x 18 mm  
Frequency range 1616 – 1626.5 MHz  
Gain typ. 3 dBic

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

**IGN 1620 LP S**

IRIDIUM  
GLONASS / GPS



- Iridium certified
- Low current consumption
- Screw mount

Dimensions 124 x 80 x 21 mm

**IRIDIUM**  
Frequency range 1616 – 1626.5 MHz  
Gain typ. 3 dBic

**GLONASS/GPS**  
Voltage supply 3 - 5.5 VDC  
Gain typ. 2 dBic  
Amplification typ. 26 dB ± 3 dB  
Current consumption ≤ 13 mA @ 5 V ± 0.5 V

Part Number	IRIDIUM	GNSS
	Connector Cable length	Connector Cable length
	<b>RG 174</b>	
956-310-301	SMAm 200 mm	SMAm 170 mm
956-310-302	SMAf 200 mm	SMAf 170 mm

**IGNC 8521 SF S**

IRIDIUM  
 GSM 850 / GSM 900 / 1800 / 1900  
 UMTS  
 GLONASS/GPS



- 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

**GLONASS/GPS**

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 (2G/3G)**

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



**IGNW 24 LP S**

IRIDIUM  
GLONASS/GPS  
WLAN / Bluetooth



- IRIDIUM certified
- Low current consumption
- Screw mount

Dimensions 124 x 80 x 21 mm

**IRIDIUM**

Gain typ. 3 dBic

**GLONASS/GPS**

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	Connector	Connector
	Cable length	Cable length	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****ORBRDS**

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

**OG RD S**

ORBCOMM  
GPS

- 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

**GPS**

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

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

## Combination | ORBCOMM + GNSS + Cellular

**OGC 8521 RD S**

ORBCOMM  
GSM 850 / GSM 900 / 1800 / 1900  
GPS

- 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

**GPS**

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

Part Number	ORBCOMM	Cellular	GPS
	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)

**Rod for OGC 8521 RD S**

ORBCOMM  
GSM 850 / GSM 900 / 1800 / 1900

















Length 405 mm  
Thread Antenna rod M5

**Part Number**

955-510-101



# Accessories

FMEf		FMEf		<b>VK-SB SUPER-LOW-LOSS</b>		
				<b>Single pack</b>	<b>L ≈</b>	<b>Part Number</b>
					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		<b>VK SUPER-LOW-LOSS FMEf/SMAm 500</b>		
				<b>1 Piece</b>	<b>L ≈</b>	<b>Part Number</b>
					5000 mm	602-340-001
FMEf		FAKRAF Z		<b>VK SUPER-LOW-LOSS FMEf/FAKRAF Z ...</b>		
				<b>1 Piece</b>	<b>L ≈</b>	<b>Part Number</b>
					5000 mm	602-406-001
FMEm		FMEf		<b>VK RG58 FMEm/FMEf 500</b>		
				<b>1 Piece</b>	<b>L ≈</b>	<b>Part Number</b>
					5000 mm	602-405-001
SMBm		SMAm		<b>VK 174 SMBm/SMAm...</b>		
				<b>1 Piece</b>	<b>L ≈</b>	<b>Part Number</b>
					5000 mm	823-684-005
SMBm		SMBf		<b>VK 174 SMBm/SMBf...</b>		
				<b>1 Piece</b>	<b>L ≈</b>	<b>Part Number</b>
					5000 mm	823-641-005
SMBm		FMEf		<b>VK 174 SMBm/FMEf...</b>		
				<b>1 Piece</b>	<b>L ≈</b>	<b>Part Number</b>
					5000 mm	823-685-005
SMBm		FAKRAF Z		<b>VK 174 SMBm/FAKRAF Z...</b>		
				<b>1 Piece</b>	<b>L ≈</b>	<b>Part Number</b>
					5000 mm	602-404-005

FAKRAf D



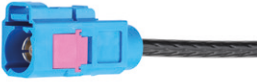
FAKRAm D



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

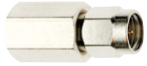


VK 174 FAKRAf E/FAKRAm E...

1 Piece	L ≈	Part Number
	3000 mm	825-051-005
	5000 mm	825-050-005


**KVS/MINI UHFm WINKEL (angled)**

Adapter connector rectangular	Part Number
	602-375-001


**KVS/SMAm**

Adapter connector	Part Number
	602-376-001


**KVS/MCXm**

Adapter connector	Part Number
	602-378-001


**KVS/BNCm**

Adapter connector	Part Number
	602-372-001


**KVK**

Adapter connector	Part Number
	602-371-001


**KVB**

Adapter connector	Part Number
	602-370-001


**AK 174 FME/FAKRAF Z**

Adapter cable, RG 174, L $\approx$ 150 mm	Part Number
	602-403-001





**Magnetic Pad**

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

Part Number	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, ...)

Part Number	602-408 001
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# More from HIRSCHMANN MOBILITY

Contact us for further information: [hirschmann-mobility@te.com](mailto:hirschmann-mobility@te.com)

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- Highest RF performance
- Scratch, shatter proof and self cleansing solar panel
- 2G/3G communication
- IP6K9K Protection class
- Operating temperature -40° C to +85° C
- Subscriber management

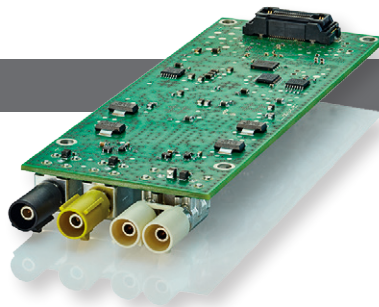


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Our Radio Tuner Cards address system integrators.

- Plug-in Radio Tuner Card for integration into a head unit or any infotainment system
- Digital Audio Interface via I2S
- Command & Control Interface via SPI
- Antenna interface via FAKRA connection
- Software update capable
- Operating temperature -40° C to +85° C



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- GPS and GSM antennas for replacement/upgrade
- Accessories available, including connectors and cables
- Magnetic, screw or adhesive variants
- Radio and TV modules for integration
- AM/FM/DAB antennas



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