

# AM-UHF1/4/GSM/UMTS/GPS

## Multiband Mobile Antenna

This multiband mobile antenna is designed to integrate multiple radio frequencies into one antenna that only requires a single hole for mounting. Internally the product is coupled with an active GPS module. The 1/4 wave radiator provides 0 dB gain on the UHF band.

The bands are provided with 20-cm-long cables of the RG174 type and can terminate on any connector.



### specifications

#### MECHANICAL

<b>Weight</b>	250 g ± 20 g
<b>Material</b>	Polyamide
<b>Color</b>	Black
<b>Mounting</b>	15 x 15 mm square hole or 20 mm dia round hole
<b>Operating Temp.</b>	-30 to +80°C

#### ORDERING DESIGNATIONS

When ordering, please, specify frequency for the UHF band and types of connectors for all UHF, GSM/UMTS and GPS bands.

ELECTRICAL	UHF1/4	GSM/UMTS	GPS
<b>Frequency Range</b>	380-470 MHz	860-960 MHz 1710-2170 MHz	1575.42 MHz
<b>SWR</b>	< 1.5	< 1.5	< 1.5
<b>Gain</b>	0 dB /2.15 dBi/	0 dB /2.15 dBi/	24 dBi at 2.7V 26 dBi at 5V
<b>Impedance</b>	50 Ω	50 Ω	50 Ω
<b>Max Power</b>	20 W	10 W	-
<b>Polarization</b>	vertical	vertical	RHCP
<b>Supply Voltage</b>	-	-	2.7-5 V
<b>Consumption</b>	-	-	12 mA at 2.7V 26 mA at 5V
<b>Noise Figure</b>	-	-	1.7-2.1 dB
<b>Cable &amp; Connector</b>	20 cm RG58 / any	20 cm RG174 / any	20 cm RG174 / any

# AM-GSM/UMTS/GPS

## Multiband Mobile Antenna

This multiband mobile antenna is designed to integrate the GSM/UMTS radio frequencies with a GPS active module into one antenna that only requires a single hole for mounting.

The bands are provided with 20-cm-long cables of the RG174 type and can terminate on any connector.



## specifications

### MECHANICAL

<b>Weight</b>	150 g ± 10 g
<b>Material</b>	Stainless steel Polyamide
<b>Color</b>	Black
<b>Mounting</b>	15 x 15 mm square hole or 20 mm dia round hole
<b>Operating Temp.</b>	-30 to +80°C

### ORDERING DESIGNATIONS

When ordering, please, specify connectors for both GSM/UMTS and GPS bands.

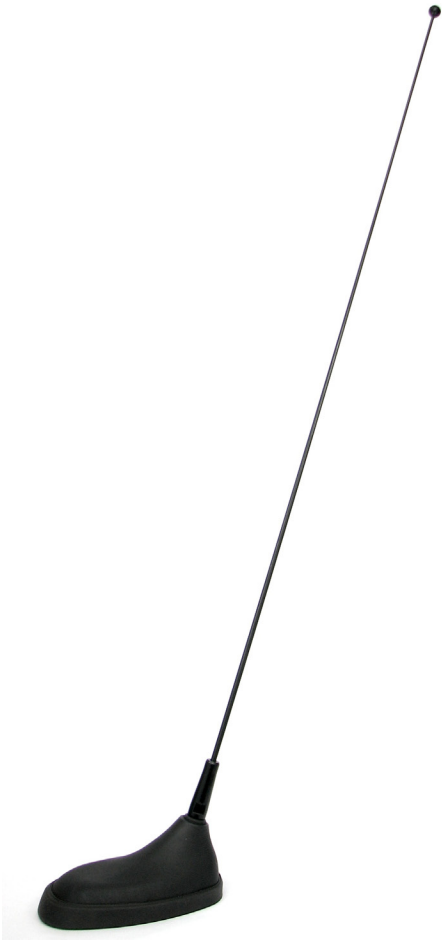
ELECTRICAL	GSM/UMTS	GPS
<b>Frequency Range</b>	860-960 MHz 1710-2170 MHz	1575.42 MHz
<b>SWR</b>	< 1.5	< 1.5
<b>Gain</b>	0 dB /2.15 dBi/	24 dBi at 2.7V 26 dBi at 5V
<b>Impedance</b>	50 Ω	50 Ω
<b>Max Power</b>	10 W	-
<b>Polarization</b>	vertical	RHCP
<b>Supply Voltage</b>	-	2.7-5 V
<b>Consumption</b>	-	12 mA at 2.7V 26 mA at 5V
<b>Noise Figure</b>	-	1.7-2.1 dB
<b>Cable &amp; Connector</b>	20 cm RG174 / any	20 cm RG174 / any

# AM-VHF1/4/GPS

Dual-band Mobile Antenna - VHF1/4+GPS

This dual-band mobile antenna of Inmak's GPS series of antennas is supplied with 0 dB gain radiator of conical black-chromed stainless steel. Internally the product is coupled with an active GPS module. The antenna requires a single hole for mounting.

The two bands are provided with 20-cm-long cables of the RG174 type and can terminate on any connector.



## specifications

### MECHANICAL

<b>Weight</b>	220 g ± 30 g
<b>Material</b>	Radiator: stainless steel Base: polyamide
<b>Color</b>	Black
<b>Mounting</b>	15 x 15 mm square hole or 20 mm dia round hole
<b>Operating Temp.</b>	-30 to +80°C

### ORDERING DESIGNATIONS

When ordering, please, specify frequency for the VHF band and types of connectors for both VHF and GPS bands.

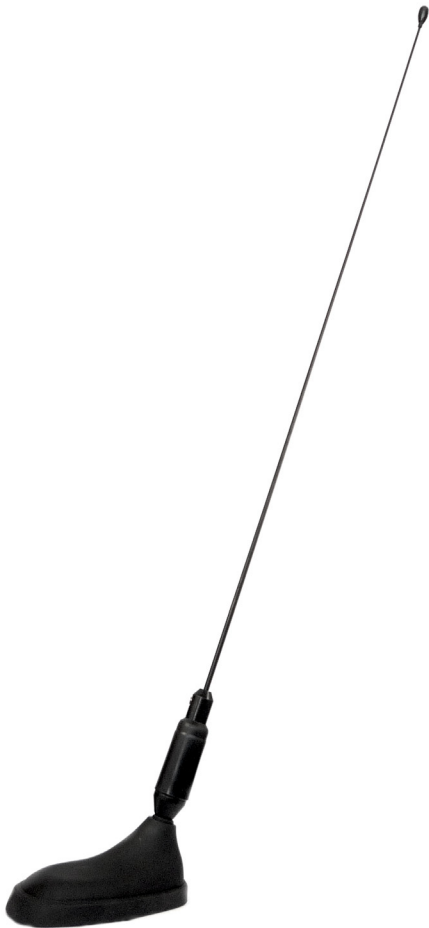
ELECTRICAL	VHF 1/4	GPS
<b>Frequency Range</b>	130-235 MHz	1575.42 MHz
<b>SWR</b>	<1.5	< 1.5
<b>Gain</b>	0 dB /2.15 dBi/	24 dBi at 2.7V / 26 dBi at 5V
<b>Impedance</b>	50 Ω	50 Ω
<b>Max Power</b>	20 W	-
<b>Polarization</b>	vertical	RHCP
<b>Supply Voltage</b>		2.7-5 V
<b>Consumption</b>		12 mA at 2.7V / 26 mA at 5V
<b>Noise Figure</b>		1.7-2.1 dB
<b>Cable / Connector</b>	20 cm RG58 / any	20 cm RG174 / any

# AM-VHF5/8/GPS

## Dual-band Mobile Antenna - VHF5/8+GPS

This dual-band mobile antenna of Inmak's GPS series of antennas is designed to allow for higher gain in the VHF radio frequency. Internally the product is coupled with an active GPS module. The antenna requires a single hole for mounting.

The two bands are provided with 20-cm-long cables of the RG174 type and can terminate on any connector.



### specifications

#### MECHANICAL

<b>Weight</b>	220 g ± 30 g
<b>Material</b>	Radiator: stainless steel Base: polyamide
<b>Color</b>	Black
<b>Mounting</b>	15 x 15 mm square hole or 20 mm dia round hole
<b>Operating Temp.</b>	-30 to +80°C

#### ORDERING DESIGNATIONS

When ordering, please, specify frequency for the VHF band and types of connectors for both VHF and GPS bands.

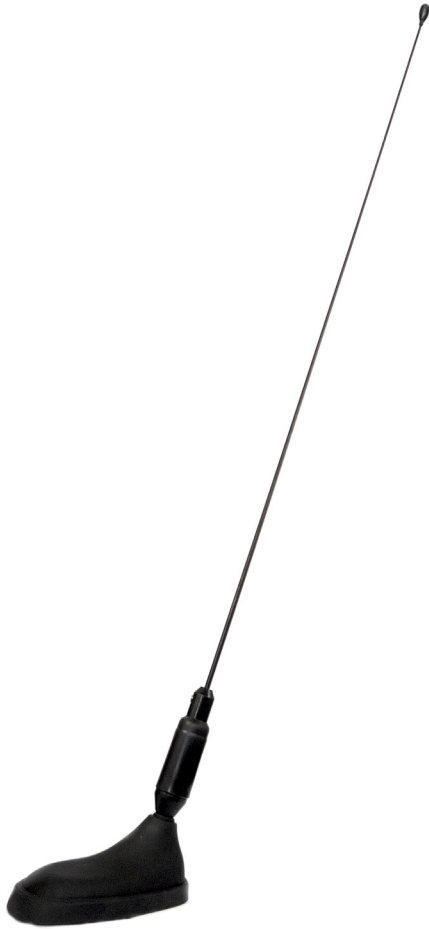
ELECTRICAL	VHF 5/8	GPS
<b>Frequency Range</b>	130-235 MHz	1575.42 MHz
<b>SWR</b>	<1.5	< 1.5
<b>Gain</b>	3 dB /5.15 dBi/	24 dBi at 2.7V / 26 dBi at 5V
<b>Impedance</b>	50 Ω	50 Ω
<b>Max Power</b>	20 W	-
<b>Polarization</b>	vertical	RHCP
<b>Supply Voltage</b>		2.7-5 V
<b>Consumption</b>		12 mA at 2.7V / 26 mA at 5V
<b>Noise Figure</b>		1.7-2.1 dB
<b>Cable / Connector</b>	20 cm RG58 / any	20 cm RG174 / any

# AM-UHF5/8/GPS

Dual-band Mobile Antenna - UHF5/8+GPS

This dual-band mobile antenna of Inmak's GPS series of antennas is designed to allow for higher gain in the UHF radio frequency. Internally the product is coupled with an active GPS module. The antenna requires a single hole for mounting.

The two bands are provided with 20-cm-long cables of the RG174 type and can terminate on any connector.



## specifications

### MECHANICAL

<b>Weight</b>	220 g ± 30 g
<b>Material</b>	Radiator: stainless steel Base: polyamide
<b>Color</b>	Black
<b>Mounting</b>	15 x 15 mm square hole or 20 mm dia round hole
<b>Operating Temp.</b>	-30 to +80°C

### ORDERING DESIGNATIONS

When ordering, please, specify frequency for the UHF band and types of connectors for both UHF and GPS bands.

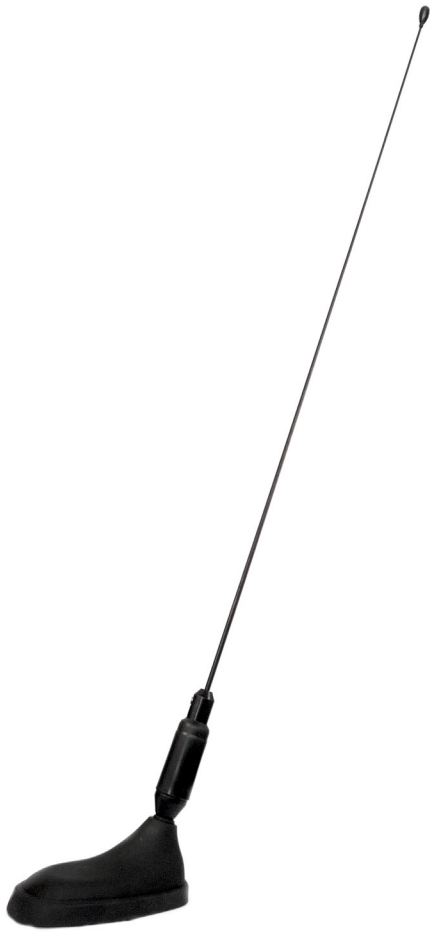
ELECTRICAL	TETRA /UHF/	GPS
<b>Frequency Range</b>	380-430 MHz	1575.42 MHz
<b>SWR</b>	< 1.5	< 1.5
<b>Gain</b>	3 dB /5.15 dBi/	24 dBi at 2.7V / 26 dBi at 5V
<b>Impedance</b>	50 Ω	50 Ω
<b>Max Power</b>	20 W	-
<b>Polarization</b>	vertical	RHCP
<b>Supply Voltage</b>	-	2.7-5 V
<b>Consumption</b>	-	12 mA at 2.7V / 26 mA at 5V
<b>Noise Figure</b>	-	1.7-2.1 dB
<b>Cable / Connector</b>	20 cm RG58 / any	20 cm RG174 / any

# AM-AM/FM/GPS

Multi-band Mobile antenna - AM/FM + GPS

This multiband mobile antenna is designed to integrate multiple radio frequencies into one antenna that only requires a single hole for mounting. Internally the product is coupled with an active GPS module.

The bands are provided with 20-cm-long cables of the RG174 type and can terminate on any connector.



## specifications

### MECHANICAL

<b>Weight</b>	220 g ± 30 g
<b>Material</b>	Radiator: stainless steel Base: polyamide
<b>Color</b>	Black
<b>Mounting</b>	15 x 15 mm square hole or 20 mm dia round hole
<b>Operating Temp.</b>	-30 to +80°C

### ORDERING DESIGNATIONS

When ordering, please, specify types of connectors for both AM/FM and GPS bands.

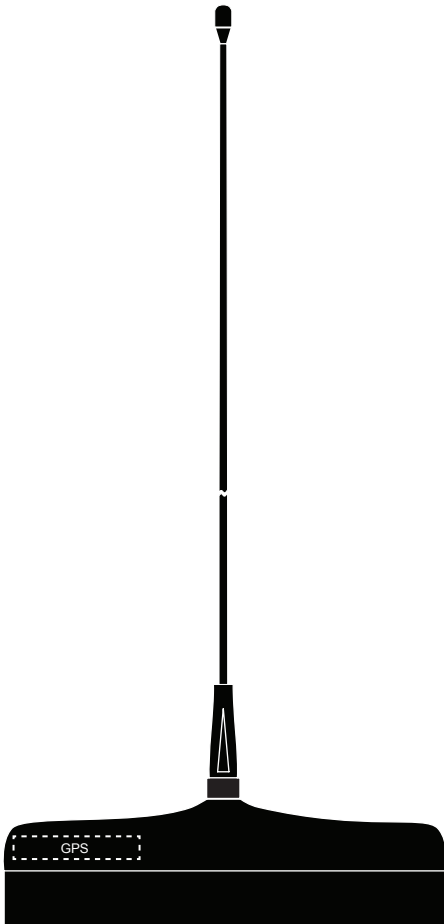
ELECTRICAL	AM/FM	GPS
<b>Frequency Range</b>	150 KHz 88-108 MHz	1575.42 MHz
<b>SWR</b>	-	< 1.5
<b>Gain</b>	3 dB /5.15/ dBi	24 dBi at 2.7V / 26 dBi at 5V
<b>Impedance</b>	150/75 Ω	50 Ω
<b>Max Power</b>	-	-
<b>Polarization</b>	vertical	RHCP
<b>Supply Voltage</b>	10-16 V	2.7-5 V
<b>Consumption</b>	27-40 mA	12 mA at 2.7V / 26 mA at 5V
<b>Noise Figure</b>	<4.5 dB	1.7-2.1 dB
<b>Cable / Connector</b>	20 cm RG58 / any	20 cm RG174 / any

# AM-VHF1/4/GPS magnetic mount

Dual-band Magnetic Mobile Antenna - VHF1/4+GPS

This dual-band mobile antenna of Inmak's GPS series of antennas is supplied with a 1/4 wave radiator of conical black-chromed stainless steel. Internally the product is coupled with an active GPS module. The magnetic mounting solution allows for flexibility when choosing an appropriate spot on the vehicle.

The two bands are provided with 20-cm-long cables of the RG174 type and can terminate on any connector.



## specifications

### MECHANICAL

<b>Weight</b>	350 g ± 30 g
<b>Material</b>	Radiator: stainless steel Base: steel and polyamide
<b>Color</b>	Black
<b>Mounting</b>	Magnetic
<b>Operating Temp.</b>	-30 to +80°C

### ORDERING DESIGNATIONS

When ordering, please, specify frequency for the VHF band and types of connectors for both VHF and GPS bands.

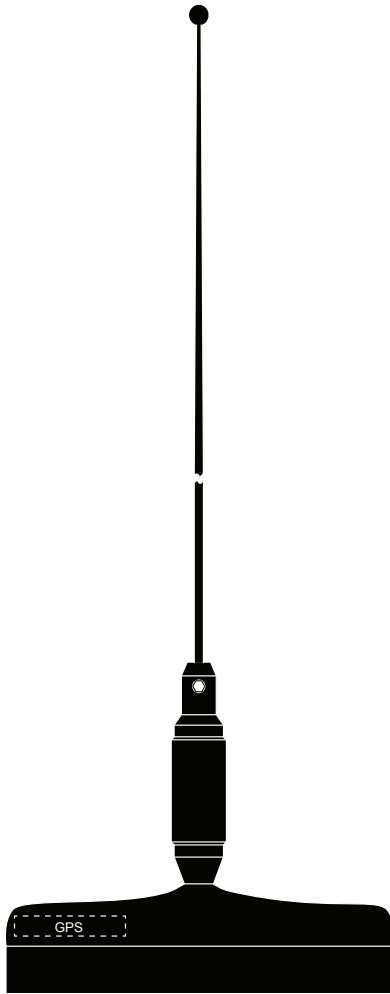
ELECTRICAL	VHF	GPS
<b>Frequency Range</b>	130-235 MHz	1575.42 MHz
<b>SWR</b>	<1.5	< 1.5
<b>Gain</b>	0 dB /2.15 dBi/	24 dBi at 2.7V / 26 dBi at 5V
<b>Impedance</b>	50 Ω	50 Ω
<b>Max Power</b>	20 W	-
<b>Polarization</b>	vertical	RHCP
<b>Supply Voltage</b>		2.7-5 V
<b>Consumption</b>		12 mA at 2.7V / 26 mA at 5V
<b>Noise Figure</b>		1.7-2.1 dB
<b>Cable / Connector</b>	5 m RG58 / any	5 m RG174 / any

# AM-VHF5/8/GPS magnetic mount

Dual-band Magnetic Mobile Antenna - VHF5/8+GPS

This dual-band mobile antenna of Inmak's GPS series of antennas is supplied with a high-performance radiator to allow for higher gain in the VHF radio frequency. An encapsulated coil and a conical black-chromed stainless steel whip are used when designing the radiator. Internally the product is coupled with an active GPS module. The magnetic mounting solution allows for flexibility when choosing an appropriate spot on the vehicle.

The two bands are provided with 20-cm-long cables of the RG174 type and can terminate on any connector.



## specifications

### MECHANICAL

<b>Weight</b>	400 g ± 30 g
<b>Material</b>	Radiator: stainless steel Base: steel and polyamide
<b>Color</b>	Black
<b>Mounting</b>	Magnetic
<b>Operating Temp.</b>	-30 to +80°C

### ORDERING DESIGNATIONS

When ordering, please, specify frequency for the VHF band and types of connectors for both VHF and GPS bands.

ELECTRICAL	VHF	GPS
<b>Frequency Range</b>	130-235 MHz	1575.42 MHz
<b>SWR</b>	<1.5	< 1.5
<b>Gain</b>	3 dB /5.15 dBi/	24 dBi at 2.7V / 26 dBi at 5V
<b>Impedance</b>	50 Ω	50 Ω
<b>Max Power</b>	20 W	-
<b>Polarization</b>	vertical	RHCP
<b>Supply Voltage</b>		2.7-5 V
<b>Consumption</b>		12 mA at 2.7V / 26 mA at 5V
<b>Noise Figure</b>		1.7-2.1 dB
<b>Cable / Connector</b>	5 m RG58 / any	5 m RG174 / any

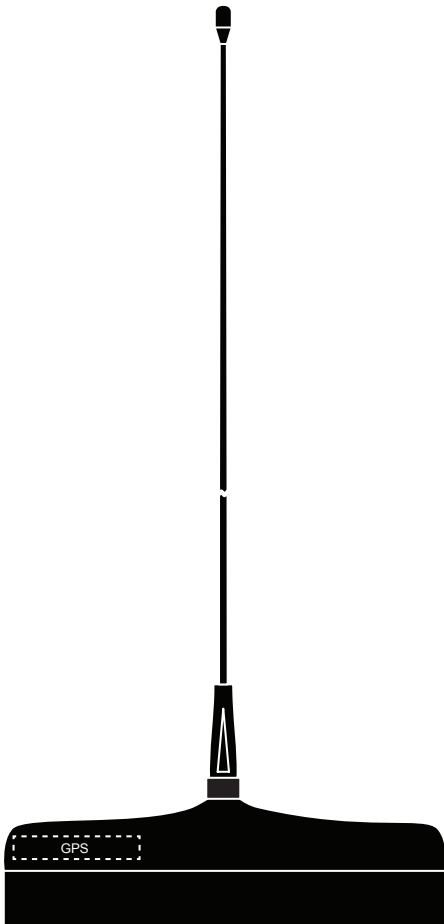


# AM-UHF1/4/GPS magnetic mount

Dual-band Magnetic Mobile Antenna - UHF1/4+GPS

This dual-band mobile antenna of Inmak's GPS series of antennas is supplied with a 1/4 wave radiator of conical black-chromed stainless steel. Internally the product is coupled with an active GPS module. The magnetic mounting solution allows for flexibility when choosing an appropriate spot on the vehicle.

The two bands are provided with 20-cm-long cables of the RG174 type and can terminate on any connector.



## specifications

### MECHANICAL

<b>Weight</b>	350 g ± 30 g
<b>Material</b>	Radiator: stainless steel Base: steel and polyamide
<b>Color</b>	Black
<b>Mounting</b>	Magnetic
<b>Operating Temp.</b>	-30 to +80°C

### ORDERING DESIGNATIONS

When ordering, please, specify frequency for the UHF band and types of connectors for both UHF and GPS bands.

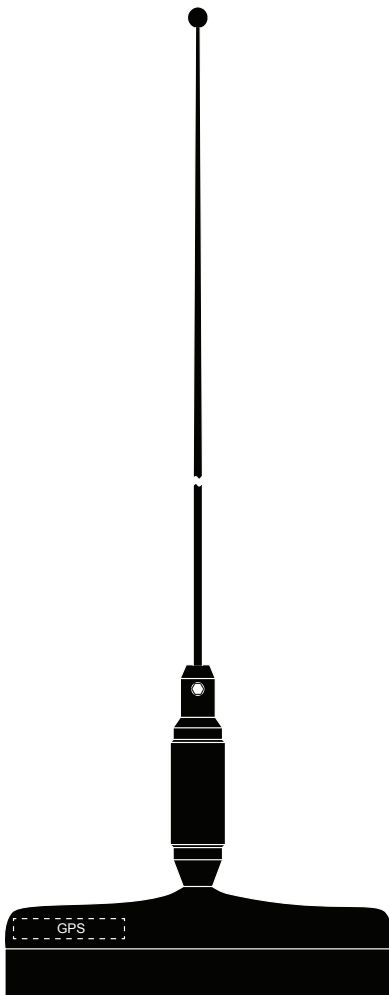
ELECTRICAL	TETRA /UHF/	GPS
<b>Frequency Range</b>	380-430 MHz	1575.42 MHz
<b>SWR</b>	< 1.5	< 1.5
<b>Gain</b>	0 dB /2.15 dBi/	24 dBi at 2.7V / 26 dBi at 5V
<b>Impedance</b>	50 Ω	50 Ω
<b>Max Power</b>	20 W	-
<b>Polarization</b>	vertical	RHCP
<b>Supply Voltage</b>	-	2.7-5 V
<b>Consumption</b>	-	12 mA at 2.7V / 26 mA at 5V
<b>Noise Figure</b>	-	1.7-2.1 dB
<b>Cable / Connector</b>	5 m RG58 / any	5 m RG174 / any

# AM-UHF5/8/GPS magnetic mount

Dual-band Magnetic Mobile Antenna - UHF5/8+GPS

This dual-band mobile antenna of Inmak's GPS series of antennas is supplied with a high-performance radiator to allow for higher gain in the UHF radio frequency. An encapsulated coil and a conical black-chromed stainless steel whip are used when designing the radiator. Internally the product is coupled with an active GPS module. The magnetic mounting solution allows for flexibility when choosing an appropriate spot on the vehicle.

The two bands are provided with 20-cm-long cables of the RG174 type and can terminate on any connector.



## specifications

### MECHANICAL

<b>Weight</b>	400 g ± 30 g
<b>Material</b>	Radiator: stainless steel Base: steel and polyamide
<b>Color</b>	Black
<b>Mounting</b>	Magnetic
<b>Operating Temp.</b>	-30 to +80°C

### ORDERING DESIGNATIONS

When ordering, please, specify frequency for the UHF band and types of connectors for both UHF and GPS bands.

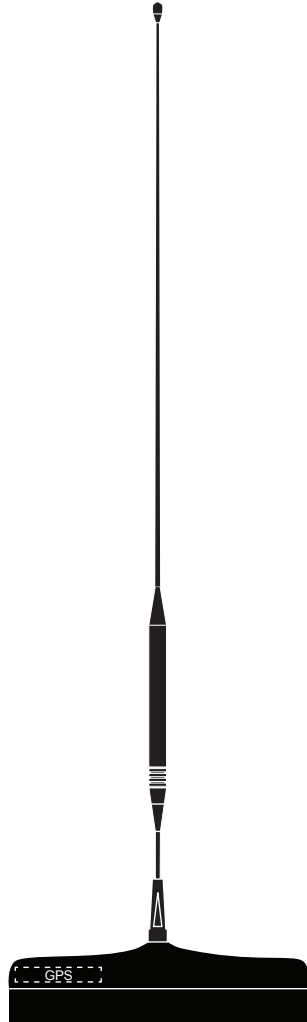
ELECTRICAL	TETRA /UHF/	GPS
<b>Frequency Range</b>	380-430 MHz	1575.42 MHz
<b>SWR</b>	< 1.5	< 1.5
<b>Gain</b>	3 dB /5.15 dBi/	24 dBi at 2.7V / 26 dBi at 5V
<b>Impedance</b>	50 Ω	50 Ω
<b>Max Power</b>	20 W	-
<b>Polarization</b>	vertical	RHCP
<b>Supply Voltage</b>	-	2.7-5 V
<b>Consumption</b>	-	12 mA at 2.7V / 26 mA at 5V
<b>Noise Figure</b>	-	1.7-2.1 dB
<b>Cable / Connector</b>	5 m RG58 / any	5 m RG174 / any

# AM-UHF4g/GPS magnetic mount

Dual-band Magnetic Mobile Antenna - UHF6G+GPS

This dual-band mobile antenna of Inmak's GPS series of antennas is supplied with a 4 dB gain radiator of conical black-chromed stainless steel. Internally the product is coupled with an active GPS module. The magnetic mounting solution allows for flexibility when choosing an appropriate spot on the vehicle.

The two bands are provided with 20-cm-long cables of the RG174 type and can terminate on any connector.



## specifications

### MECHANICAL

<b>Weight</b>	350 g ± 30 g
<b>Material</b>	Radiator: stainless steel Base: steel and polyamide
<b>Color</b>	Black
<b>Mounting</b>	Magnetic
<b>Operating Temp.</b>	-30 to +80°C

### ORDERING DESIGNATIONS

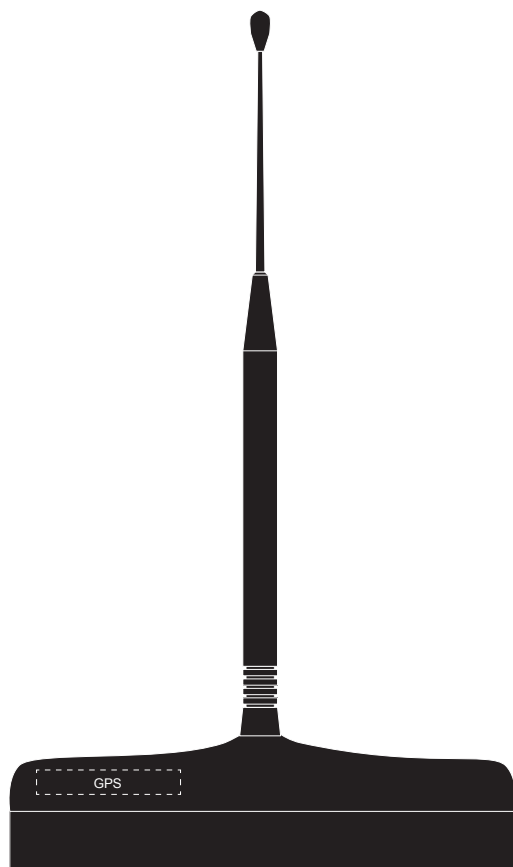
When ordering, please, specify frequency for the UHF band and types of connectors for both UHF and GPS bands.

ELECTRICAL	TETRA /UHF/	GPS
<b>Frequency Range</b>	380-430 MHz	1575.42 MHz
<b>SWR</b>	< 1.5	< 1.5
<b>Gain</b>	4 dB /6.15 dBi/	24 dBi at 2.7V / 26 dBi at 5V
<b>Impedance</b>	50 Ω	50 Ω
<b>Max Power</b>	20 W	-
<b>Polarization</b>	vertical	RHCP
<b>Supply Voltage</b>	-	2.7-5 V
<b>Consumption</b>	-	12 mA at 2.7V / 26 mA at 5V
<b>Noise Figure</b>	-	1.7-2.1 dB
<b>Cable / Connector</b>	5 m RG58 / any	5 m RG174 / any

# AM-GSM3.5g/GPS magnetic mount

Dual-band Magnetic Mobile Antenna - GSM+GPS

This dual-band mobile antenna of Inmak's GPS series of antennas is supplied with a 3.5 dB gain radiator of conical black-chromed stainless steel and encapsulated coil. Internally the product is coupled with an active GPS module. The magnetic mounting solution allows for flexibility when choosing an appropriate spot on the vehicle. The two bands are provided with 20-cm-long cables of the RG174 type and can terminate on any connector.



## specifications

### MECHANICAL

<b>Weight</b>	280 g ± 20 g
<b>Material</b>	Radiator: stainless steel Base: steel and polyamide
<b>Color</b>	Black
<b>Mounting</b>	Magnetic
<b>Operating Temp.</b>	-30 to +80°C

### ORDERING DESIGNATIONS

When ordering, please, specify the connectors for both GSM and GPS bands.

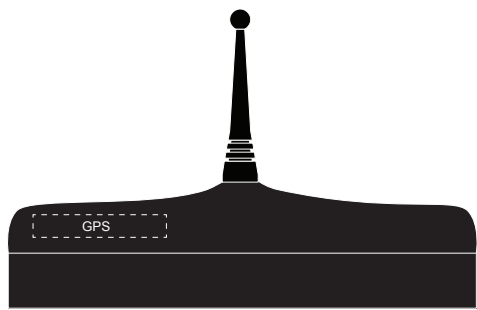
ELECTRICAL	GSM	GPS
<b>Frequency Range</b>	860-960 MHz	1575.42 MHz
<b>SWR</b>	< 1.5	< 1.5
<b>Gain</b>	3.5 dB /5.65 dBi/	24 dBi at 2.7V / 26 dBi at 5V
<b>Impedance</b>	50 Ω	50 Ω
<b>Max Power</b>	10 W	-
<b>Polarization</b>	vertical	RHCP
<b>Supply Voltage</b>	-	2.7-5 V
<b>Consumption</b>	-	12 mA at 2.7V / 26 mA at 5V
<b>Noise Figure</b>	-	1.7-2.1 dB
<b>Cable / Connector</b>	5 m RG174 / any	5 m RG174 / any

# AM-GSM/GPS magnetic mount

## Dual-band Magnetic Mobile Antenna - GSM+GPS

This dual-band mobile antenna of Inmak's GPS series of antennas is supplied with a 0 dB gain radiator of conical black-chromed stainless steel. Internally the product is coupled with an active GPS module. The magnetic mounting solution allows for flexibility when choosing an appropriate spot on the vehicle.

The two bands are provided with 20-cm-long cables of the RG174 type and can terminate on any connector.



## specifications

### MECHANICAL

<b>Weight</b>	270 g ± 20 g
<b>Material</b>	Radiator: stainless steel Base: steel and polyamide
<b>Color</b>	Black
<b>Mounting</b>	Magnetic
<b>Operating Temp.</b>	-30 to +80°C

### ORDERING DESIGNATIONS

When ordering, please, specify the connectors for both GSM and GPS bands.

### ELECTRICAL

	GSM	GPS
<b>Frequency Range</b>	860-960 MHz	1575.42 MHz
<b>SWR</b>	< 1.5	< 1.5
<b>Gain</b>	0 dB / 2.15 dBi/	24 dBi at 2.7V / 26 dBi at 5V
<b>Impedance</b>	50 Ω	50 Ω
<b>Max Power</b>	10 W	-
<b>Polarization</b>	vertical	RHCP
<b>Supply Voltage</b>	-	2.7-5 V
<b>Consumption</b>	-	12 mA at 2.7V / 26 mA at 5V
<b>Noise Figure</b>	-	1.7-2.1 dB
<b>Cable / Connector</b>	5 m RG174 / any	5 m RG174 / any

# AM-GPS magnetic mount

## GPS Mobile Antenna

Should you be interested only in an external GPS antenna solution, Inmak has included in its GPS series of products this pure GPS magnetic antenna.

The GPS module is provided with 20-cm-long cable of the RG174 type and can terminate on any connector.



## specifications

### MECHANICAL

<b>Weight</b>	40 g ± 5 g
<b>Material</b>	Polyamide
<b>Color</b>	Black
<b>Mounting</b>	Magnetic
<b>Operating Temp.</b>	-30 to +80°C

### ORDERING DESIGNATIONS

When ordering, please, specify connector type.

### ELECTRICAL

#### Frequency Range

#### SWR

#### Gain

#### Impedance

#### Max Power

#### Polarization

#### Supply Voltage

#### Consumption

#### Noise Figure

#### Cable & Connector

### GPS

1575.42 MHz

< 1.5

24 dBi at 2.7V  
26 dBi at 5V

50 Ω

-

RHCP

2.7-5 V

12 mA at 2.7V  
26 mA at 5V

1.7-2.1 dB

5 m RG174 / any