m2m
your wireless competence

Antennas & Cable

Catalog 2017

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Stubby — 3G, WiFi, Bluetooth with SMA/M straight

Frequency Range

- GSM 850/900/1800/1900 (MHz)
- AMPS 850 (MHz)
- UMTS 2100 (MHz)
- WiFi / Bluetooth 2.4 (GHz)

Performance:

Gain:	2.2 dBi
Polarization:	vertical
VSWR:	2:1

Cable:

Connector:	SMA/M

Mounting:

- Connector mounting

Order Number: **3265**

Size:	54.7x6.7 - 9.65mm
Temperature:	-40°C to +85°C

Stubby — WiFi, Bluetooth with SMA/M right angle

Frequency Range

- WiFi / Bluetooth 2.4 (GHz)

Performance:

Gain:	2.2 dBi
Polarization:	vertical

Cable:

Connector:	SMA/M

Mounting:

- Connector mounting

Order Number: **3414**

Size:	113 x Ø 10mm
Temperature:	-40°C to +85°C

Stubby — ISM, 3G, WiFi, Bluethooth with SMA/M right angle

Frequency Range

- GSM 850/900/1800/1900 (MHz)
- AMPS 850 (MHz)
- ISM 868/915 (MHz)
- UMTS 2100 (MHz)
- WiFi / Bluetooth 2.4 (GHz)
- WiFi 5.0 (GHz)

Performance:

Gain:	3 dBi avg.
Polarization:	vertical
VSWR:	<2.5:1

Cable:

Connector:	SMA/M

Mounting:

- Connector mounting
- Note: Ground Plane Independent

Order Number: **3988**

Size:	114 x Ø 10mm
Temperature:	-40°C to +85°C

Stubby — ISM, 3G, WiFi, Bluetooth with SMA/M

Frequency Range

- GSM 850/900/1800/1900 (MHz)
- UMTS 2100 (MHz)
- ISM 868 (MHz)
- AMPS 850 (MHz)

Performance:

Gain:	2.2 dBi
Polarization:	vertical
VSWR:	2:1

Cable:

Connector:	SMA/M

Mounting:

- Connector mounting

Order Number: **3373 (straight)**
4023 (right angle)

Size:	52 x Ø 9.7mm
Temperature:	-40°C to +85°C

Stubby — 3G, AWS, 4G, WIMAX with SMA/M right angle

Frequency Range

- LTE 700 (MHz)
- GSM 900/1800/1900 (MHz)
- UMTS 2100 (MHz). AWS
- LTE/WiMAX 2.6 (GHz)

Performance:

Gain:	Isotropic 2 dBi
Polarization:	vertical
VSWR:	<2.5:1

Cable:

Connector:	SMA/M

Mounting:

- Connector mounting

Order Number: **3391**

Size:	163 x 22 x 7mm
Temperature:	-40°C to +80°C

Magnetic — ISM, 3G with SMA/M (IP65)

Frequency Range

- AMPS 824-894 (MHz)
- ISM 868 (MHz)
- GSM 900/1800/1900 (MHz)
- UMTS 2100 (MHz)

Performance:

Gain:	2.2 dBi MAX
Polarization:	linear

Cable:

Cable Typ:	RG174U
Cable Length:	2.5m
Connector:	SMA/M

Mounting:

- Magnetic mounting

Order Number: **3439**

Size:	71.5 x Ø 30.9mm
Temperature:	-40°C to +85°C

Any Surface — 3G, Bluetooth, WiFi, GPS/Glonass with 2x Fakra (IP67)

Frequency Range

- AMPS 850 (MHz)
- ISM 868/915 (MHz)
- GSM 850/900/1800/1900 (MHz)
- UMTS 2100 (MHz)
- GPS/Glonass 1572 - 1610 (MHz)
- WiFi / Bluetooth 2.4 (GHz)

Performance:

Gain:	0 dBi GPS: 23dBi at 3V. 24dBi at 5V
Polarization:	GSM: horizontal GPS: RHCP

Cable:

Cable Typ:	RG174
Cable Length:	3m Twin Cable
Connector:	GSM: Fakra D Bordeaux GPS: Fakra C Blue

Mounting:

- Any surface

Order Number: **3691 (Magnetic/Patch)**
3268 (Patch)

Size:	52.5 x Ø 13mm
Case:	IP67
Temperature:	-40°C to +85°C

Mini Any Surface — GPS with Fakra (IP67)

Frequency Range

- GPS 1572 (MHz)

Performance:

Gain:	26dBi at 3V. 27dBi at 5V
Polarization:	RHCP

Cable:

Cable Typ:	RG174
Cable Length:	3m
Connector:	Fakra SMA/M

Mounting:

- Any surface

Order Number: **3266 (Fakra C Blue)**
3650 (SMA/M)

Size:	13.2 x 28.2 x 21.2mm
Case:	IP67
Temperature:	-40°C to +85°C

Magnetic — ISM, 3G, Bluetooth, WiFi with SMA/M

Frequency Range

- AMPS 850 (MHz)
- ISM 868 (MHz)
- GSM 900/1800/1900 (MHz)
- UMTS 2100 (MHz)
- WiFi / Bluetooth 2.4 (GHz)

Performance:

Gain:	5dBi at 2.4GHz
Polarization:	vertical
VSWR:	<2:1

Cable:

Cable Typ:	RG174
Cable Length:	3m
Connector:	SMA/M

Mounting:

- Magnetic mounting

Order Number: **3524**

Size:	30.9 x 71.5mm
Temperature:	-40°C to +85°C

Magnetic — AWS, 3G, 4G with SMA/M

Frequency Range

- AMPS 850 (MHz)
- GSM 900/1800/1900 (MHz)
- UMTS 2100 (MHz). AWS
- LTE 700 (MHz)

Performance:

Gain:	Isotropic 2dBi
Polarization:	vertical

Cable:

Cable Typ:	RG174
Cable Length:	2m
Connector:	SMA/M

Mounting:

- Magnetic mounting

Order Number: **4019**

Size:	100 x 10.5mm
Temperature:	-40°C to +80°C

Magnetic — 3G, GPS with 2x Fakra (IP67)

Frequency Range

- AMPS 850 (MHz)
- GSM 850/900/1800/1900 (MHz)
- UMTS 2100 (MHz)
- GPS 1572 (MHz)

Performance:

Gain:	0 dBi GPS: 26 dBi at 3V and 28 dBi at 5V
Polarization:	GSM: horizontal GPS: RHCP
VSWR:	2:1

Cable:

Cable Typ:	RG174
Cable Length:	3m
Connector:	GSM: Fakra D Bordeaux GPS: Fakra C Blue

Mounting:

- Magnetic mounting

Order Number: **3603**

Size:	13 x 80 x 75mm
Case:	IP67
Temperature:	-40°C to +85°C

Magnetic — 3G, Bluetooth, WiFi with SMA/M

Frequency Range

- AMPS 850 (MHz)
- GSM 900/1800/1900 (MHz)
- UMTS 2100 (MHz)
- WiFi / Bluetooth 2.4 (GHz)

Performance:

Gain:	2.14 dBi
Polarization:	linear
VSWR:	<2:1

Cable:

Cable Typ:	RG174
Cable Length:	2m
Connector:	SMA/M

Mounting:

- Magnetic mounting

Order Number: **3655**

Size:	13 x 80 x 76mm
Case:	IP67
Temperature:	-40°C to +85°C

Window — Tetra, ISM, 3G, Bluetooth, WiFi with SMA/M

Frequency Range

- Tetra 380 - 500 (MHz)
- AMPS 850 (MHz)
- ISM 868 (MHz)
- GSM 900/1800/1900 (MHz)
- UMTS 2100 (MHz)
- WiFi / Bluetooth 2.4 (GHz)

Performance:

Gain:	2.2 dBi
Polarization:	vertical

Cable:

Cable Typ:	RG174
Cable Length:	2.5m
Connector:	SMA/M

Mounting:

- Window mounting
- Adhesive mounting

Order Number: **3605**

Size:	7 x 126.5 x 22.5mm
Temperature:	-40°C to +85°C

Window — ISM, 3G, Bluetooth, WiFi with SMA/M

Frequency Range

- AMPS 850 (MHz)
- ISM 868 (MHz)
- GSM 900/1800/1900 (MHz)
- UMTS 1800/2100 (MHz)
- WiFi / Bluetooth 2.4 (GHz)
- WiFi 5.0 (GHz)

Performance:

Gain:	2.2 dBi
Polarization:	vertical
VSWR:	<2:1

Cable:

Cable Typ:	RG174
Cable Length:	30 cm
Connector:	SMA/M

Mounting:

- Window mounting
- Adhesive mounting

Order Number: **3654**

Size:	116 x 6.7 x 22mm
Temperature:	-40°C to +85°C

Window — ISM, 3G, 4G, Bluetooth, WiFi with SMA/M

Frequency Range

- AMPS 850 (MHz)
- ISM 868 (MHz)
- GSM 850/900/1800/1900 (MHz)
- UMTS 2100 (MHz)
- LTE 700/900/1700/2100/2400/2600/2700 (MHz)
- WiFi / Bluetooth 2.4 (GHz)

Performance:

Gain:	2.14 dBi
Polarization:	linear
VSWR:	2:1

Cable:

Cable Typ:	RG174
Cable Length:	30 cm
Connector:	SMA/M

Mounting:

- Window mounting

Order Number: **3610**

Size:	6.7 x 117.4 x 12.5mm
Temperature:	-40°C to +85°C

Portable — 3G, 4G, MiMo with SMA/M

Frequency Range

- GSM 900/1800/1900 (MHz)
- UMTS 2100 (MHz)
- LTE 700/900/1700/2100/2400/2600/2700 (MHz)

Performance:

Gain:	698-960 MHz = 2.5 dBi 1710-2170 MHz = 4 dBi 2200-2700 MHz = 3 dBi
VSWR:	< 2.5:1

Cable:

Cable Typ:	RG174
Cable Length:	2m
Connector:	SMA/M & Adapter for LTE Sticks SMK TS9 M

Mounting:

- Window mounting
- Desk mounting

Order Number: **3668**

Size:	137 x 151mm
Temperature:	-40°C to +80°C

Roof — 3G, 4G with SMA/M

Frequency Range

- GSM 800/900/1800/1900 (MHz)
- UMTS 1800/2100 (MHz)
- LTE 700/900/1700/2100/2400/2600 (MHz)

Performance:

Gain:	3dBi (700-800MHz) 4dBi (900-1800MHz) 5dBi (1900-2600MHz)
Polarization:	vertical
VSWR:	<2.5:1

Cable:

Cable Typ:	Low Loss coax
Cable Length:	50cm
Connector:	SMA/M

Mounting:

- Roof mounting

Order Number: **3696**

Size:	82 x Ø48mm
Temperature:	-40°C to +80°C

Roof — 4G, MiMo, GPS with SMA/M (IP66)

Frequency Range

- LTE 700/900/1700/2100/2400/2600/2700 (MHz)
- GPS 1575 (MHz)

Performance:

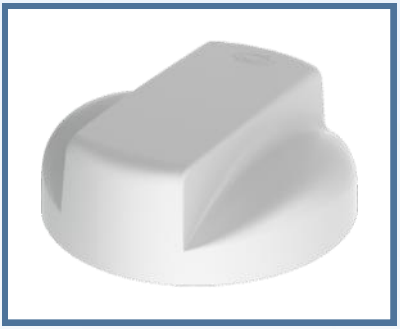
Gain:	GPS: 26 dBi LTE:2 dBi
Polarization:	vertical
VSWR:	<2.5:1

Cable:

Cable Typ:	RG174
Cable Length:	30cm
Connector:	2x SMA/M / FME/F

Mounting:

- Roof mounting



Order Number: **3782**

Size:	82 x Ø176mm
Case:	IP66
Temperature:	-30°C to +80°C

Roof — ISM, 3G, Bluetooth, WiFi with SMA/M (IP67 & IP69K)

Frequency Range

- AMPS 850 (MHz)
- ISM 868 (MHz)
- GSM 800/900/1800/1900 (MHz)
- UMTS 2100 (MHz)
- WiFi / Bluetooth 2.4 (GHz)

Performance:

Gain:	2.2 dBi
Polarization:	linear
VSWR:	<2:1

Cable:

Cable Typ:	RG174
Cable Length:	3 m
Connector:	SMA/M

Mounting:

- Roof mounting
- Body mounting

Order Number: **3312**

Size:	77.4 x Ø 15.9mm
Case:	IP67. IP69K
Temperature:	-40°C to +85°C

Roof — Bluetooth, WiFi, GPS with Fakra and SMA/M

Frequency Range

- AMPS 850 (MHz)
- GSM 900/1800/1900 (MHz)
- GPS 1572 (MHz)
- WiFi / Bluetooth 2.4 (GHz)

Performance:

Gain:	GPS: 26 dBi at 3V. 27 dBi at 5V GSM / WiFi: 2 dBi Max
Polarization:	GPS: RHCP GSM/WiFi: vertical
VSWR:	GSM: <3:1. GNSS: <1.2:1

Cable:

Cable Typ:	3x RG174
Cable Length:	3m
Connector:	GSM: Fakra D Bordeaux GPS: Fakra C Blue WiFi: SMA/M

Mounting:

- Roof mounting

Order Number: **4024**

Size:	64 x 98 x 59.5mm
Temperature:	-40°C to +85°C

Wall/Mast — 3G, 4G, WiFi with SMA/M

Frequency Range

- AMPS 850 (MHz)
- GSM 850/900/1800/1900 (MHz)
- UMTS 1800/2100 (MHz)
- LTE 700/2600 (MHz)
- WiFi 2.4 (GHz)

Performance:

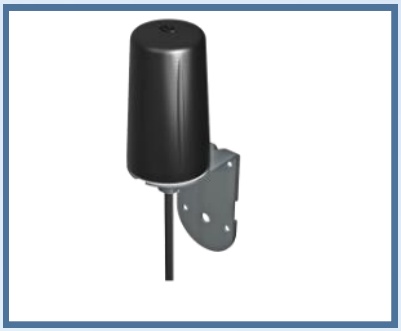
Gain:	2dBi (698-960MHz). 4dBi (1710-2700MHz)
Polarization:	vertical

Cable:

Cable Typ:	CS29
Cable Length:	5m

Mounting:

- Wall/Mast mounting
- Ground dependent



Order Number: **3743**

Size:	164 x Ø48mm
Case:	IP65
Temperature:	-40°C to +80°C

Wall — 3G, 4G with SMA/M

Frequency Range

- AMPS 850 (MHz)
- GSM: 900/1800/1900 (MHz)
- UMTS: 1800/2100 (MHz)
- LTE: 2100 (MHz)

Performance:

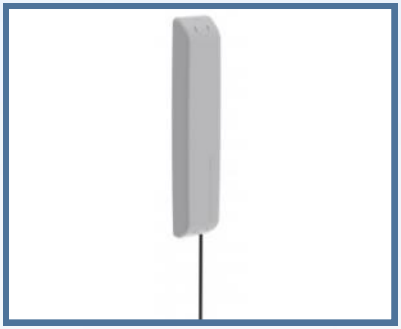
Gain:	Isotropic 2 dBi
Polarization:	vertical

Cable:

Cable Typ:	RG174
Cable Length:	2m
Connector:	SMA/M

Mounting:

- Wall mounting



Order Number: **3939**

Size:	19.6 x 165 x 32mm
Temperature:	-40°C to +80°C

Wall/Mast — 3G/4G, Bluetooth, WiFi with SMA/M

Frequency Range

- AMPS 850 (MHz)
- ISM 868 (MHz)
- GSM 800/900/1800/1900 (MHz)
- UMTS 2100 (MHz)
- WiFi / Bluetooth 2.4 (GHz)

Performance:

Gain:	2.2 dBi
Polarization:	vertical
VSWR:	<2:1

Cable:

Cable Typ:	RG174
Cable Length:	3m
Connector:	SMA/M

Mounting:

- Wall/Mast mounting (PVC)

Order Number: **3713 (3G)**
4063 (4G)

Size:	240 x 115 x 30 mm
Temperature:	-40°C to +85°C

Wall/Mast — 3G, Bluetooth, WiFi with SMA/M

Frequency Range

- AMPS 850 (MHz)
- ISM 868 (MHz)
- GSM 800/900/1800/1900 (MHz)
- UMTS 2100 (MHz)
- WiFi / Bluetooth 2.4 (GHz)

Performance:

Gain:	2.2 dBi
Polarization:	vertical
VSWR:	<2:1

Cable:

Cable Typ:	RG58
Cable Length:	2.50m
Connector:	SMA/M

Mounting:

- Wall/Mast mounting
- Ground dependent

Order Number: **3714**

Size:	376 x 155 x 36mm
Temperature:	-40°C to +85°C

Embedded — ISM, 3G, Bluetooth, WiFi with UFL (small)

Frequency Range

- AMPS 850 (MHz)
- ISM 868 (MHz)
- GSM 900/1800/1900 (MHz)
- UMTS 1800/2100 (MHz)
- WiFi / Bluetooth 2.4 (GHz)

Performance:

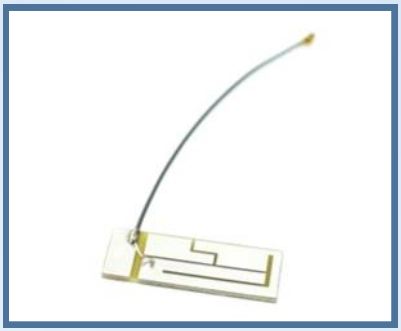
Gain:	0 dBi
Polarization:	linear
VSWR:	<2.5:1

Cable:

Cable Typ:	dia 1.13mm
Cable Length:	47cm
Connector:	UFL

Mounting:

- Embedded mounting
- Adhesive mounting



Order Number: **3618**

Size:	16 x 42 x 1.6mm
Temperature:	-40°C to +85°C

Embedded — 3G, Bluetooth with SMA/M

Frequency Range

- AMPS 850 (MHz)
- GSM 900/1800/1900 (MHz)
- UMTS 2100 (MHz)
- Bluetooth 2.4 (GHz)

Performance:

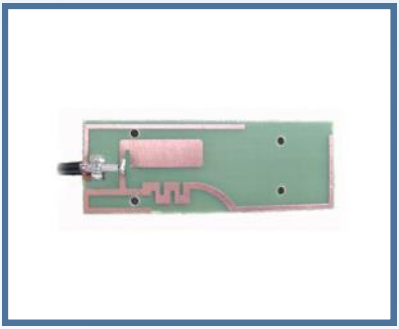
Gain:	0 dBi
Polarization:	vertical
VSWR:	<2:1

Cable:

Cable Typ:	RG174
Cable Length:	10cm
Connector:	SMA/M

Mounting:

- Embedded mounting
- Adhesive mounting
- Window mounting



Order Number: **3598**

Size:	25 x 72mm
Temperature:	-40°C to +85°C

Embedded — ISM, 3G, Bluetooth, WiFi with UFL

Frequency Range

- AMPS 850 (MHz)
- ISM 868 (MHz)
- GSM 900/1800/1900 (MHz)
- UMTS 1800/2100 (MHz)
- WiFi / Bluetooth 2.4 (GHz)
- WiFi 5.0 (GHz)

Performance:

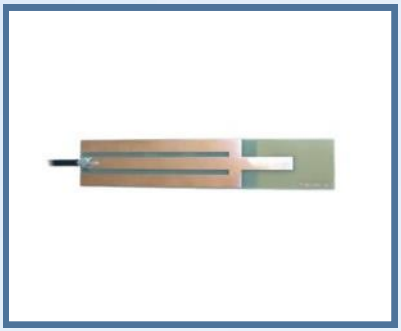
Gain:	2.2 dBi
Polarization:	vertical
VSWR:	<2:1

Cable:

Cable Typ:	dia 1.13mm
Cable Length:	35cm
Connector:	UFL

Mounting:

- Embedded mounting
- Adhesive mounting



Order Number: **3735 UFL 35cm**
3597 MMCX/M 10cm

Size: 105 x 2.7mm
Temperature: -40°C to +85°C

Cable

Order. Nr.	Name
3269	SMA/F to W.FL - 10cm - dia 1.13mm
3291	SMA/F to U.FL - 12cm - dia 1.13mm
3585	SMA/F to U.FL - 5cm - dia 1.13mm
3302	SMA/F to W.FL - 20cm - dia 1.13mm
3545	SMA/M to SMA/F - 30cm - RG174
3315	SMA/M to SMA/F - 10m - Low Loss
3314	SMA/M to SMA/F - 5m - Low Loss
3611	FME/F to FME/M - 2m - RG174
3443	SMA/F to SMA/M - 10m - RG58
3442	SMA/F to SMA/M - 5m - RG58
3784	FME/M to SMA/M - 3m - Low Loss
3813	SMA RP/M to SMA RP/F - 5m - RG58

Adapter

Order. Nr.	Name
3158	SMA/M to FME/M
3159	SMA/F to FME/F
3160	SMA/F to SMA/M - right angle
3179	FME/F to FME/M - right angle
4051	FME/F to SMA/F
4060	SMA/M to SMA/M

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m2m Germany GmbH

Am Kappengraben 18
D-61273 Wehrheim

Tel.: +49 6081 58738 60
Fax.: +49 6081 58738 69
E-Mail: info@m2mgermany.de

www.m2mgermany.de