



# Antennas Accessories



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## Embedded-, PCB-, Straight-, Magnetic-Mount-Antennas

### Embedded-/PCB-Antennas

Part-No.	Description	Frequency Band in MHz	Frequency Range in MHz	Dimensions in mm	Cable/Connector	Gain in dBi
420043	Dual Band GSM Antenna	900/1800	890-960 1710-1880	62,5 x 4,8 x 4,9	55 mm/IPX <sup>1)</sup>	2
420041	Dual Band GSM PCB-Antenna	900/1800	890-960 1710-1890	88 x 20 x 1,5	110 mm/IPX <sup>1)</sup>	0
420044	Full Band GSM/UMTS/LTE/WiMAX Antenna	700/850/900/1800/ 1900/2100/2300/2500	698-960 1710-2170 2500-2700	80 x 30 x 8	200 mm/IPX <sup>1)</sup>	0/2/2
420042	Penta Band GSM/UMTS PCB Antenna, adhesive	850/900/1800/1900/2100	890-960 1710-1890 1885-2170	70 x 20 x 0,16	100 mm/U.FL	0
420019	Tri Band GSM/UMTS Antenna for PCB design	900/1800/2100	890-960 1710-1890 1885-2170	17 x 17 x 4	for PCB design	0
420021	WLAN 2.4/5.8 Antenna, included adhesive pad	2400/5800	2400-2500 5150-5835	40 x 14,5 x 7	100 mm/IPX <sup>1)</sup>	2
420020	GPS Antenna, Polarization: RHCP	GPS	1575,42	25 x 25 x 2	for PCB design	-

### Straight Antennas


Part-No.	Description	Frequency Band in MHz	Frequency Range in MHz	Dimensions in mm	Connector	Gain in dBi
420012	Quad Band GSM Antenna	850/900/1800/1900	824-960 1710-1990	∅ 12,7 x 43	SMA(m)	0
420005	Dual Band GSM Swivel Antenna	900/1800	824-960 1710-1880	∅ 9,3 x 86	SMA(m)	0
420006	Dual Band GSM Swivel Antenna	900/1800	824-960 1710-1880	∅ 9,3 x 108	SMA(m)	0
420007	Dual Band GSM Swivel Antenna	900/1800	824-960 1710-1880	∅ 13 x 198	SMA(m)	2
420022	Penta Band GSM/UMTS Swivel Antenna	850/900/1800/1900/2100	824-960 1710-2170	∅ 13(21,5) x 160	SMA(m)	2

### Magnetic Mount Antennas

Part-No.	Description	Frequency Band in MHz	Frequency Range in MHz	Dimensions in mm	Cable/Connector	Gain in dBi
420003	Dual Band GSM Magnetic Mount Mini Antenna	900/1800	890-960 1710-1880	∅ 27 x 120 (Antenna: ∅ 6,5)	RG174; 1,5 m/SMA(m)	0/2
420049	Tri Band GSM/UMTS Magnetic Mount Antenna	900/1800/2100	824-960 1710-2170	∅ 40 x 132	RG174; 2,5 m/SMA(m)	2
420004	Dual Band GSM Swivel Magnetic Mount Antenna	900/1800	890-960 1710-1880	∅ 48,5 x 238 (Antenna: ∅ 13)	RG174; 3 m/SMA(m)	2

<sup>1)</sup> The IPX connector is 100% compatible with U.FL interfaces. Cable Crimp IPX is attached to Coaxial cables such as 1,13 mm micro coax, 1,32 mm double shielded cables.


## Cable Adapters with U.FL or IPX Connector



Part-No.	Description	Cable Type	Ø in mm	Length in mm
430024	SMA(f) bulkhead, Hirose U.FL(f), r/a	088	1,37	100
430025	SMA(f) bulkhead, Hirose U.FL(f), r/a	088	1,37	200
430026	SMA(f) bulkhead with rubber ring, U.FL(f) r/a	088	1,37	100
430027	SMA(f) bulkhead with rubber ring, U.FL(f) r/a	088	1,37	200
430013	SMA(m) bulkhead, Hirose U.FL(f), r/a	088	1,37	100
430023	SMA(m) bulkhead, Hirose U.FL(f), r/a	088	1,37	200
430021	Hirose U.FL(f), r/a, Hirose U.FL(f), r/a	066	1,32	85
430018	Hirose U.FL(f), r/a, Hirose U.FL(f), r/a	066	1,32	100

Other types, versions and customization on request.


## RF Adapters and Connectors



Part-No.	Description
430002	SMA plug (male) - FME plug (male)
430003	SMA jack (female) - FME plug (male), r/a
430020	SMA jack (female) - FME jack (female)
430001	SMA bulkhead jack (female) - U.FL plug (male)
520003	SMA bulkhead jack (female), p.c.b. mounting, r/a
430022	N(f) - N(m), Lightning Surge Protector, 0 to 3 GHz Wide-band Operation

## Accessories for P.C.B. assembling and production

### Power Supplies for M2M Terminals



Part-No.	Description
410001	Power supply wall adapter with modular jack RJ-12 (6P6C) AV input: 100-240 VAC 1A 50-60 Hz; output: 12 VDC 1,5 A
410002	Power supply wall adapter; cable with open ends; plus/minus AV input: 100-240 VAC 1A 50-60 Hz; output: 12 VDC 1,5 A
520004	U.FL-R-SMT (MOQ: 2.5000)
510003	SIM Reader Mole (MOQ: 800)
510004	SIM Holder Molex (MOQ: 500)
510001	SIM reader push/push, with switch (MOQ: 800)
510002	SIM reader, flap cover, with switch (MOQ: 800)
520001	USB B connector, THT
520002	mini USB connector, 5-pin, SMT
5200xx	large range of FAKRA (SMBA) plugs and jacks

Other types, versions and customization on request.

r/a: right angle; (f) female/jack; (m) male/plug  
 066: Ø 1,32 mm; inner conductor: 7/0,08 mm (AWG32) silver plated Cu; double shield; 50 ohms  
 088: Ø 1,37 mm; inner conductor: 7/0,102 mm (AWG30) silver plated Cu; single shield; 50 ohms

Some images show product in use with other accessories (not included).


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## LTE Full Band Antennas




Part-No.	Description	Frequency Band in MHz	Frequency Range in MHz	Dimensions in mm	Cable/Connector	Gain in dBi
420046	Full Band GSM/UMTS/LTE/WiMAX Ceiling Mount Antenna	700/850/900/1800/1900/2100/2300/2500	698-860 1710-2700	Ø 100 x 130	-/N (f)	3 to 3,5
420047	Full Band MIMO GSM/UMTS/LTE/WiMAX Patch Antenna, IP-65 Guarantee for Outdoor Application	850/900/1800/1900/2100/2300/2500	824-960 1710-2170 2200-2700	520 x 300	-/2 x N (f)	7 to 10
420045	Full Band GSM/UMTS/LTE/WiMAX Wall Mount Antenna; included mounting kit	850/900/1800/1900/2100/2400	790-960 1710-2170 2300-2700	Ø 20 x 320 (antenna only)	-/N (f)	1/2/3
420044	Full Band GSM/UMTS/LTE/WiMAX Embedded Antenna	700/850/900/1800/1900/2100/2300/2500	698-960 1710-2170 2500-2700	80 x 30 x 8	200 mm/IPX	0/1/2

## Antennas for Vending Machines and Automotive



Part-No.	Description	Frequency Band in MHz	Frequency Range in MHz	Dimension in mm	Cable/Connector	Gain in dBi
420015	Tri Band GSM/UMTS Antenna for vending machines against vandalism; middle screwing	900/1800/2100	890-960 1710-1890 1885-2170	Ø 97 x 20	RG174 0,5 m/FME (f)	1,5
420018	Tri Band GSM/UMTS/GPS Patch Antenna, included adhesive pad	GPS 1575,42	890-960 1710-1890 1885-2170	Ø 35 x 13	RG174 3 m/2 x SMA(m)	0
420037	Tri Band GSM/UMTS/GPS (GLONASS) Antenna for vending machines against vandalism, middle screwing	900/1800/2100/ GPS 1575,42	890-960 1710-1890 1885-2170	Ø 76 x 23	RG174 3 m/2 x SMA(m)	1,5
420016	Dual Band GSM Directional Antenna	900/1800	890-960 1710-1890	Ø 200 x 40	low loss 3 m/FME	6
420013	Full Band TETRA/GSM/GSM-R/UMTS/WLAN/GPS Multiband Antenna for Vehicles	WLAN 2,4/5,8, 1575,42	410-430 450-470 890-960 1710-1890	200 x 60 x 40	-/4 x N (f)	3,5 to 4,5
420014	Full Band TETRA/GSM/GSM-R/UMTS/WLAN/GPS Train Antenna		1710-1890 1885-2170 WLAN, GPS			

## Outdoor Antennas



Part-No.	Description	Frequency Band in MHz	Frequency Range in MHz	Dimensions in mm	Cable/Connector	Gain in dBi
420038	Full Band GSM/UMTS/WLAN Wall Mount Antenna	850/900/1800/1900/2100/2400	790-960 1710-2170 2300-2700	Ø 17 x 298 (antenna only)	RG58; 5 m/FME(f)	2,2
420045	Full Band GSM/UMTS/LTE/WiMAX Wall Mount Antenna, included mounting kit	850/900/1800/1900/2100/2400	790-960 1710-2170 2300-2700	Ø 20 x 320 (antenna only)	-/N (f)	1/2/3

<sup>1)</sup> The IPX connector is 100% compatible with U.FL interfaces. Cable Crimp IPX is attached to Coaxial cables such as 1,13 mm micro coax, 1,32 mm double shielded cables.