



Get connected



Vážení zákazníci,

představujeme Vám portfolio našich produktů. Najdete zde širokou nabídku antén, konektorů a kabelů.

Produktové portfolio je pro jednoduchou orientaci barevně rozlišeno a seřazeno podle technologií a způsobů uchycení jednotlivých produktů. Katalog obsahuje aktuální trendy dle vývoje trhu Internet of Things (IoT) a M2M technologií. Rozšířená nabídka kabelů a konektorů nabízí individuální uzpůsobení dle potřeb zákazníka.

V posledních dvaceti letech na trhu anténního průmyslu a bezdrátových technologií obsadila naše společnost SECTRON vedoucí pozici. V současné době jako autorizovaný distributor aktivních elektronických komponentů renomovaných značek nabízíme produkty pasivních dílů M2M technologií, včetně vlastní výroby kabelových redukcí, svazků a antén. Díky rozsáhlým zkušenostem v těchto oblastech poskytujeme komplexní řešení dle přání zákazníka a nabízíme kvalitní výrobky a služby od nápadu zákazníka až po realizaci.

Dear customers,

We would like to present our portfolio of antennas, cables and connectors. Inside the catalogue, you will find a wide range of our product portfolio, in which we use colour divisions and sorting according to technologies and methods of attachment for easy navigation. The catalogue contains products according to current trends in relation to the market development of the Internet of Things (IoT) and M2M technology. The extended range of cables and connectors offers tailor-made solutions that satisfy specific requirements of each customer.

During the last twenty years, SECTRON has occupied a leading market position within the antenna industry and wireless technologies market as an authorized distributor for worldwide leaders in machine-to-machine communication, including our own production of cable assemblies and antennas. Owing to extensive experience in this, we are able to provide comprehensive solutions for a vast range of M2M applications. From idea to implementation, each project will benefit from our high quality products and services.

INTRODUCTION



868 NB-IoT

STICK	4
MOUNTING	5



GSM/UMTS/LTE ANTENNA

MAGNETIC	6
ADHESIVE	10
MOUNTING	14
SMT	17
STICK	18



CDMA, ISM ANTENNA, DVB-T

CDMA	22
DVB-T	23



GPS/GLONASS ANTENNA

MAGNETIC	24
SMT PATCH	25
PIN PATCH	26
ANTENNA MODULE	27
ADHESIVE	29
MOUNTING	30



WI-FI, WLAN ANTENNA

MOUNTING	32
MAGNETIC	33
STICK	34
ADHESIVE	36



COMBINATION ANTENNA

COMBINATION	37
-------------	----



RF ADAPTORS

COAXIAL CABLES	40
CONNECTOR ADAPTORS	41
COAXIAL CONNECTORS	42
PCB CONNECTORS	46

868 NB-IoT Stick



	AO-A868-G015-RS	AO-A868-G410S	AO-A868-G402S	AW-A868-79S
ELECTRICAL DATA	868 MHz Antenna Stick 90 °	868 MHz Antenna Stick 90 °/180 °	868 MHz Antenna Stick 90 °/180 °	868 MHz Antenna Stick 90 °/180 °
Working Frequency	868 MHz	868 MHz	868 MHz	868 MHz
Technology	ISM/LoRa/SigFox	ISM/ZigBee/LoRa/SigFox	ISM (ZigBee, LoRa)	Zig-Bee
Directivity	Omni-Directional	Omni-Directional	Omni-Directional	Omni-Directional
Gain	2 dBi	3 dBi	2 dBi	1 dBi
Polarization	Linear	Linear	Linear	Linear
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	< 2.0 : 1	< 2.0 : 1	< 2.5 : 1	< 1.51 : 1

MECHANICAL DATA				
Dimensions	87.2 × 16.8 × 9.2 mm	90 °: 173 × 37.3 × 12.9 mm 180 °: 197 × 12.9 mm	90 °: 85.7 × 33.2 × 10 mm 180 °: 108 × 10 mm	90 °: 85.7 × 33.2 × 10 mm 180 °: 108 × 10 mm
Weight	8.34 g	25.04 g	9.62 g	11.10 g
Operating Temperature	-40 °C to 85 °C	-40 °C to 85 °C	-40 °C to 85 °C	-20 °C to 55 °C
Mounting	Screw	Screw	Screw	Screw
Connector	SMA(m)	SMA(m)	SMA(m)	SMA(m)

868 NB-IoT Mounting



AO-A868-YASS

868 MHz Antenna Mounting YAGI

ELECTRICAL DATA

Working Frequency	868 MHz
Technology	ISM/LoRa/SigFox
Directivity	Directional
Gain	10 dBi
Polarization	Linear
Impedance	50 Ω
VSWR	< 2.0 : 1

MECHANICAL DATA

Dimensions	540 x 179.8 mm
Weight	865 g
Operating Temperature	-40 °C to 85 °C
Mounting	Mounting
Cable	RG58 / 3m ¹⁾
Connector	SMA(m) ²⁾



1) other cable length options on request

2) for other connector options see page

GSM/UMTS/LTE

Magnetic



	AO-AGSM-MG2	AO-AGSM-MG3	AO-AGSM-MG5	AO-AGSM-MG9
ELECTRICAL DATA	Cellular Antenna Magnetic MG2	Cellular Antenna Magnetic MG3	Cellular Antenna Magnetic MG5	Cellular Antenna Magnetic MG9
Working Frequency	900/1800 MHz	900/1800 MHz	900/1800 MHz	900/1800 MHz
Directivity	Omni-Directional	Omni-Directional	Omni-Directional	Omni-Directional
Gain	2.5 dBi	3 dBi	5 dBi	9 dBi
Polarization	Linear	Linear	Linear	Linear
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	< 1.5 : 1	< 2.0 : 1	< 2.0 : 1	< 2.0 : 1
MECHANICAL DATA				
Dimensions	Ø26.7 × 116.7 mm	Ø30 × 232 mm	Ø40 × 282 mm	Ø70 × 453.7 mm
Weight	82 g	66 g	74 g	300 g
Operating Temperature	-30 °C to 90 °C	-40 °C to 85 °C	-30 °C to 90 °C	-30 °C to 90 °C
Mounting	Magnetic	Magnetic	Magnetic	Magnetic
Cable	RG174/U, 3m ¹⁾	RG174/U, 3m ¹⁾	RG174/U, 3m ¹⁾	RG58/U, 3.5m ¹⁾
Connector	SMA(m), FME(f) ²⁾	SMA(m), FME(f), MMCX(m) ²⁾	SMA(m), FME(f), MCX(m), MMCX(m) ²⁾	SMA(m), FME(f) ²⁾



1) other cable length options on request

2) for other connector options see page 42- 45

GSM/UMTS/LTE

Magnetic



	AO-AUMTS-M2S	AO-AUMTS-G016S	AO-AUMTS-G821S	AO-AUMTS-M3
ELECTRICAL DATA	Cellular Antenna Magnetic M2	Cellular Antenna Magnetic 016	Cellular Antenna Magnetic 821	Cellular Antenna Magnetic M3
Working Frequency	800/900/1800/1900/2100 MHz	800/900/1700/1800/1900/2100 MHz	800/900/1700/1800/1900/2100 MHz	900/1800/1900/2100 MHz
Directivity	Omni-Directional	Omni-Directional	Omni-Directional	Omni-Directional
Gain	2 dBi	3 dBi	3 dBi	3 dBi
Polarization	Linear	Linear	Linear	Linear
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	< 2.0 : 1	< 2.0 : 1	< 2.5 : 1	< 2.0 : 1

	AO-AUMTS-M2S	AO-AUMTS-G016S	AO-AUMTS-G821S	AO-AUMTS-M3
MECHANICAL DATA				
Dimensions	Ø34.3 × 101 mm	Ø29.4 × 121 mm	Ø29.4 × 305 mm	Ø26.7 × 214 mm
Weight	66 g	47 g	100 g	65 g
Operating Temperature	-20 °C to 60 °C	-40 °C to 85 °C	-40 °C to 85 °C	-40 °C to 85 °C
Mounting	Magnetic	Magnetic	Magnetic	Magnetic
Cable	RG174/U, 3m ¹⁾	RG58, 3m ¹⁾	RG174/U, 3m ¹⁾	RG174/U, 3m ¹⁾
Connector	SMA(m) ²⁾	SMA(m) ²⁾	SMA(m) ²⁾	SMA(m), FME(f) ²⁾



1) other cable length options on request

2) for other connector options see page 42- 45

GSM/UMTS/LTE

Magnetic



	AO-AUMTS-MG5S	AO-AUMTS-G825S	AO-ALTE-MG5S	AO-ALTE-G024LS
ELECTRICAL DATA	Cellular Antenna Magnetic MG5	Cellular Antenna Magnetic 825	Cellular Antenna Magnetic MG5	Cellular Antenna Magnetic 024L
Working Frequency	900/1800/2100 MHz	800/900/1700/1800/1900/2100 MHz	700/800/900/1800/1900/2100/2500/2600/2700 MHz	800/900/1700/1800/1900/2100 MHz
Directivity	Omni-Directional	Omni-Directional	Omni-Directional	Omni-Directional
Gain	5 dBi	7 dBi	3-5 dBi	5 dBi
Polarization	Linear	Linear	Linear	Linear
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	< 2.0 : 1	< 2.0 : 1	< 2.0 : 1	< 2.0 : 1

MECHANICAL DATA

Dimensions	Ø81 × 346 mm	Ø70 × 675 mm	Ø70 × 305 mm	Ø40 × 311 mm
Weight	330 g	347 g	220 g	120 g
Operating Temperature	-30 °C to 90 °C	-40 °C to 85 °C	-30 °C to 90 °C	-40 °C to 85 °C
Mounting	Magnetic	Magnetic	Magnetic	Magnetic
Cable	RG195, 3m ¹⁾	RG58/U, 3m ¹⁾	RG174/U, 3m ¹⁾	RG58, 3m ¹⁾
Connector	SMA(m) ²⁾	SMA(m) ²⁾	SMA(m) ²⁾	SMA(m) ²⁾



1) other cable length options on request

2) for other connector options see page 42- 45

GSM/UMTS/LTE

Magnetic



AO-ALTE-MG9S	AO-ALTE-G124S	AO-ALTE-MG9S-F	AO-ALTE-G825-1S	AO-ALTE-MG3DS5
Cellular Antenna Magnetic MG9	Cellular Antenna Magnetic 124	Cellular Antenna Magnetic MG9 FLEXI	Cellular Antenna Magnetic 825-1	Cellular Antenna MIMO Magnetic MG3D
700/800/900/1800/1900/2100/2500/2600/2700 MHz	700/800/900/1700/1800/1900/2100/2600 MHz	700/800/900/1800/1900/2100/2600/2700 MHz	700/800/900/1700/1800/1900/2100/2600 MHz	700/800/900/1700/1800/1900/2100/2300/2400/2500/2600/2700 MHz
Omni-Directional	Omni-Directional	Omni-Directional	Omni-Directional	Omni-Directional
5-9 dBi	6 dBi	7-9 dBi	9 dBi	0-5 dBi
Linear	Linear	Linear	Linear	Linear
50 Ω	50 Ω	50 Ω	50 Ω	50 Ω
< 2.0 : 1	< 2.0 : 1	< 1.8 : 1	< 2.0 : 1	< 2.0 : 1

Ø75 x 446 mm	Ø29.5 x 315 mm	Ø75 x 346 mm	Ø65 x 460 mm	326 x 177 mm
222 g	56 g	325 g	303 g	303 g
-20 °C to 55 °C	-40 °C to 85 °C	-30 °C to 90 °C	-40 °C to 85 °C	-40 °C to 85 °C
Magnetic	Magnetic	Magnetic	Magnetic	Magnetic
RG174, 3m ¹⁾	RG174, 3m ¹⁾	RG195, 3m ¹⁾	RG58, 3m ¹⁾	2x RG58, 5m ¹⁾
SMA(m) ²⁾	SMA(m) ²⁾	SMA(m) ²⁾	SMA(m) ²⁾	2x SMA(m) ²⁾



1) other cable length options on request

2) for other connector options see page 42- 45

GSM/UMTS/LTE Adhesive



	AO-AGSM-40	AO-AGSM-SA1	AO-AG-FPC14	AO-AUMTS-G107S
ELECTRICAL DATA	Cellular Antenna Adhesive 40	Cellular Antenna Adhesive SA1	Cellular Antenna Adhesive FPC14	Cellular Antenna Adhesive 107
Working Frequency	900/1800/2100 MHz	900/1800 MHz	900/1700/1800/1900/2100 MHz	800/1700/1800/1900/2100/2400/2500 MHz
Directivity	Omni-Directional	Omni-Directional	Directional	Omni-Directional
Gain	2 dBi	2.5 dBi	2 dBi	2 dBi
Polarization	Linear	Linear	Linear	Linear
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	< 2.0 : 1	< 2.0 : 1	< 2.0 : 1	< 2.0 : 1

	AO-AGSM-40	AO-AGSM-SA1	AO-AG-FPC14	AO-AUMTS-G107S
MECHANICAL DATA				
Dimensions	Ø71 × 12 mm	129.5 × 22.8 × 6,5 mm	70 × 20 mm	72 × 25 × 7.5 mm
Weight	171 g	21 g	0.51 g	49 g
Operating Temperature	-40 °C to 85 °C	-40 °C to 85 °C	-30 °C to 80 °C	-40 °C to 85 °C
Mounting	Adhesive	Adhesive	Adhesive	Adhesive
Cable	RG174/U, 5m ¹⁾	RG174/U, 3m ¹⁾	088 (1.37), 0.1 m ¹⁾	RG174/U, 3m ¹⁾
Connector	SMA(m) ²⁾	SMA(m), FME(f), MMCX(m)90° ²⁾	U.FL(f), SMA(m), MMCX(m)90° ²⁾	SMA(m) ²⁾



1) other cable length options on request

2) for other connector options see page 42- 45

GSM/UMTS/LTE Adhesive



	AO-AUMTS-G117S	AO-AUMTS-G011S	AO-ALTE-S2	AO-ALTE-SL2
ELECTRICAL DATA	Cellular Antenna Adhesive 117	Cellular Antenna Adhesive 011	Cellular Antenna Adhesive S2	Cellular Antenna Adhesive SL2
Working Frequency	800/900/1700/1800/1900/2100 MHz	800/900/1700/1800/1900/2100 MHz	700/800/900/1800/1900/2100/2400/2500/2600/2700 MHz	700/800/900/1800/1900/2100/2400/2500/2600/2700 MHz
Directivity	Omni-Directional	Omni-Directional	Omni-Directional	Omni-Directional
Gain	2 dBi	2 dBi	2.5 dBi	2.5 dBi
Polarization	Linear	Linear	Linear	Linear
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	< 2.0 : 1	< 2.5:1	< 3.8 : 1	< 3.8 : 1

MECHANICAL DATA

Dimensions	35.5 × 39.9 × 5.5 mm	Ø71,5 × 15,3 mm	108 × 18 mm	104 × 10.9 mm
Weight	46 g	69 g	62 g	36 g
Operating Temperature	-40 °C to 85 °C	-40 °C to 85 °C	-20 °C to 60 °C	-20 °C to 60 °C
Mounting	Adhesive	Adhesive	Adhesive	Adhesive
Cable	RG174/U, 3m ¹⁾	RG174/U, 5m ¹⁾	RG174 /U, 2.5m ¹⁾	RG174 /U, 2.5m ¹⁾
Connector	SMA(m) ²⁾	SMA(m) ²⁾	SMA(m) ²⁾	SMA(m) ²⁾



1) other cable length options on request

2) for other connector options see page 42- 45

GSM/UMTS/LTE

Adhesive



	AO-ALTE-SA3	AO-ALTE-G108LS	AO-ALTE-SA5	AO-ALTE-G017LS
	Cellular Antenna Adhesive SA3	Cellular Antenna Adhesive 108L	Cellular Antenna Adhesive SA5	Cellular Antenna Adhesive 017L
ELECTRICAL DATA				
Working Frequency	700/800/900/1800/1900/2100/2400/2500/2600/2700 MHz	800/900/1700/1800/1900/2100/2600 MHz	800/900/1700/2100/2700 MHz	800/900/1700/1800/1900/2100/2600 MHz
Directivity	Omni-Directional	Omni-Directional	Omni-Directional	Omni-Directional
Gain	2.5 dBi	2.5 dBi	3-5 dBi	2 dBi
Polarization	Linear	Linear	Linear	Linear
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	< 2.0 : 1	< 2.0 : 1	< 2.0 : 1	< 2.0 : 1

	AO-ALTE-SA3	AO-ALTE-G108LS	AO-ALTE-SA5	AO-ALTE-G017LS
MECHANICAL DATA				
Dimensions	115.5 × 22.2 × 7.5 mm	126 × 16.2 × 8.8 mm	115 × 55.5 × 9.7 mm	104,6 × 21.7 × 5.8 mm
Weight	54 g	48 g	54 g	54 g
Operating Temperature	-20 °C to 60 °C	-40 °C to 85 °C	-20 °C to 60 °C	-40 °C to 85 °C
Mounting	Adhesive	Adhesive	Adhesive	Adhesive
Cable	RG174 A/U, 3m ¹⁾	RG174/U, 3m ¹⁾	RG58, 3m ¹⁾	RG174/U, 3m ¹⁾
Connector	SMA(m) ²⁾	SMA(m) ²⁾	SMA(m) ²⁾	SMA(m) ²⁾



1) other cable length options on request

2) for other connector options see page 42- 45

GSM/UMTS/LTE Adhesive



AO-ALTE-FPC002U150

Cellular Antenna Flexible

ELECTRICAL DATA

Working Frequency	700/800/900/1700/1800/1900/ 2100/2600 MHz
Directivity	Omni-Directional
Gain	0 dBi
Polarization	Linear
Impedance	50 Ω
VSWR	< 2.0 : 1

MECHANICAL DATA

Dimensions	20 x 80 x 0.1 mm
Weight	1.42 g
Operating Temperature	-20 °C to 80 °C
Mounting	Adhesive
Cable	Hirose 088
Connector	UFL

GSM/UMTS/LTE

Mounting



AO-AGSM-36	AO-AGSM-MI3	AO-AGSM-MI7C	AO-AGSM-MI9S-FLEXI	AO-AGSM-YAGI
Cellular Antenna Mounting 36	Cellular Antenna Mounting MI3	Cellular Antenna Mounting MI7C	Cellular Antenna Mounting MI9 FLEXI	Cellular Antenna Mounting YAGI
900/1800/2100 MHz	900/1800 MHz	800/900 MHz	900/1800 MHz	900/1800 MHz
Omni-Directional	Omni-Directional	Omni-Directional	Omni-Directional	Directional
0-2 dBi	3 dBi	5 dBi	6 dBi	12 dBi
Linear	Linear	Linear	Linear	Linear
50 Ω	50 Ω	50 Ω	50 Ω	50 Ω
< 2.0 : 1	< 2.0 : 1	< 2.0 : 1	< 2.0 : 1	< 2.0 : 1
Ø54.4 x 24.6 mm	Ø35 x 140 mm	Ø33 x 451 mm	Ø33 x 334 mm	300 x 200 x 26.4 mm
130 g	207 g	144 g	226 g	655 g
-30 °C to 90 °C	-30 °C to 90 °C	-30 °C to 90 °C	-30 °C to 90 °C	-30 °C to 90 °C
Mounting	Mounting	Mounting	Mounting	Mounting
RG174/U, 3m ¹⁾	RG58U, 4.5m ¹⁾	RG174/U, 5m ¹⁾	RG58/U, 5m ¹⁾	RG58/U, 10m ¹⁾
SMA(m), FME(f) ²⁾	SMA(m), FME(f) ²⁾	MMCX(m) ²⁾	SMA(m) ²⁾	FME(f) ²⁾



1) other cable length options on request

2) for other connector options see page 42- 45

GSM/UMTS/LTE

Mounting



	AO-AUMTS-YASS	AO-AUMTS-G008S	AO-AUMTS-MI5	AO-AGSM-OM54
ELECTRICAL DATA	Cellular Antenna Mounting YAGI	Cellular Antenna Mounting 008	Cellular Antenna Mounting MI5	Cellular Antenna Mounting OM54
Working Frequency	800/900/1800/1900/2100 MHz	800/900/1700/1800/1900/2100 MHz	900/1900/2100 MHz	800/900/1800/1900/2100 MHz
Directivity	Directional	Omni-Directional	Omni-Directional	Omni-Directional
Gain	10 dBi	2 dBi	5 dBi	7 dBi
Polarization	Linear	Linear	Linear	Linear
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	< 2.0 : 1	< 2.5 : 1	< 2.0 : 1	< 2.0 : 1

	AO-AUMTS-YASS	AO-AUMTS-G008S	AO-AUMTS-MI5	AO-AGSM-OM54
MECHANICAL DATA	Cellular Antenna Mounting YAGI	Cellular Antenna Mounting 008	Cellular Antenna Mounting MI5	Cellular Antenna Mounting OM54
Dimensions	540 x 180 mm	Ø81.3 x 14.6 mm	Ø33 x 351 mm	Ø20 x 1060 mm
Weight	960 g	92 g	190 g	584 g
Operating Temperature	-20°C to 60 °C	-40 °C to 85 °C	-20 °C to 60 °C	-20 °C to 60 °C
Mounting	Mounting	Mounting	Mounting	Mounting
Cable	RG58/U, 10m ¹⁾	RG174/U, 3m ¹⁾	RG195/U, 3m ¹⁾	N/A
Connector	SMA(m) ²⁾	SMA(m) ²⁾	SMA(m) ²⁾	N(f)



1) other cable length options on request

2) for other connector options see page 42- 45

GSM/UMTS/LTE

Mounting



AO-ALTE-36S	AO-ALTE-MI3S	AO-ALTE-OM56	AO-ALTE-OM58	AO-ALTE-YASS	AO-ALTE-XL7025-15
Cellular Antenna Mounting PUK	Cellular Antenna Mounting MI3	Cellular Antenna Mounting OM56	Cellular Antenna Mounting OM58	Cellular Antenna Mounting YAGI	Cellular Antenna Mounting XL
700/800/900/1700/ 1800/ 2100/2500/ 2600/2700 MHz	700/800/900/1700/ 1800/1900/2100/2500/ 2600/2700 MHz	700/800/900/1800/ 1900/2100/2400/ 2500/2600/2700 MHz	700/800/850/900/1700 /1800/1900/2100/ 2300/2500/2600 MHz	700/800/900/1800/ 1900/2100/2500/ 2600/2700 MHz	700/800/900/1700/ 1800/1900/2100/2400/ 2500/2600/2700 MHz
Omni-Directional	Omni-Directional	Omni-Directional	Omni-Directional	Directional	Directional
0-2 dBi	3 dBi	5 dBi	1.3-5.2 dBi	10 dBi	15 dBi
Linear	Linear	Linear	Linear	Linear	Vertical
50 Ω	50 Ω	50 Ω	50 Ω	50 Ω	50 Ω
< 2.0 : 1	< 2.0 : 1	< 2.0 : 1	< 2.0 : 1	< 3.5 : 1	< 2.0 : 1

Ø54.4 x 24.6 mm	Ø32.5 x 220 mm	Ø20 x 750 mm	Ø20 x 280 mm	540 x 180 mm	445 x 210 x 65 mm
122 g	212 g	615 g		569 g	614 g
-30 °C to 90 °C	-20 °C to 60 °C	-20 °C to 60 °C	-30 °C to 90 °C	-20 °C to 60 °C	-40 °C to 60 °C
Mounting	Mounting	U-bolt/Mast	Mounting	Mounting	Mounting
RG174/U, 3m ¹⁾	RG58/U, 4.5m ¹⁾	N/A	RG58/U, 3m ¹⁾	RG58/U, 0.28m ¹⁾	RG58/U, 5m ¹⁾
SMA(m) ²⁾	SMA(m) ²⁾	N(f)	SMA(m) ²⁾	SMA(m) ²⁾	SMA(m) ²⁾



1) other cable length options on request

2) for other connector options see page 42- 45

GSM/UMTS/LTE

SMT



	AO-AGSM-P30	AO-AG-PA25	AO-ALTE-PIF01	AO-ALTE-PIF02
ELECTRICAL DATA	Cellular Antenna SMT P30	Cellular Antenna SMT PA25	Cellular Antenna SMT PIF01	Cellular Antenna SMT PIF02
Working Frequency	900/1800 MHz	900/1700/1800/1900/ 2100 MHz	700/800/900/ 1800/1900/2100 MHz	700/800/900/1800/ 1900/2100/2500/2600 MHz
Directivity	Directional	Directional	Directional	Omni-Directional
Gain	0 dBi	0 dBi	0 dBi	0 dBi
Polarization	Linear	Linear	Linear	Linear
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	< 2.0 : 1	< 3.5 : 1	< 4.0 : 1	< 4.5 : 1

MECHANICAL DATA				
Dimensions	$\varnothing 47 \times 1.66$ mm	$35 \times 6 \times 5$ mm	$40 \times 6 \times 5$ mm	$40 \times 6 \times 5$ mm
Weight	3.57 g	3.29 g	3.52 g	3.52 g
Operating Temperature	-30 °C to 90 °C	-30 °C to 85 °C	-40 °C to 85 °C	-40 °C to 85 °C
Mounting	SMT	SMT	SMT	SMT
Cable	N/A	N/A	N/A	N/A
Connector	N/A	N/A	N/A	N/A

GSM/UMTS/LTE

Stick



ELECTRICAL DATA	AO-AGSM-SMRS	AO-AGSM-SMVS	AO-AUMTS-G401-1SS	AO-AUMTS-G401-1RS
	Cellular Antenna Stick SMRS	Cellular Antenna Stick SMVS	Cellular Antenna Stick 401-1S	Cellular Antenna Stick 90° 401-1R
Working Frequency	800/900/1800/1900/2100 MHz	800/900/1800/1900/2100 MHz	800/900/1700/1800/1900/2100 MHz	800/900/1700/1800/1900/2100 MHz
Directivity	Omni-Directional	Omni-Directional	Omni-Directional	Omni-Directional
Gain	2 dBi	2 dBi	2 dBi	2 dBi
Polarization	Linear	Linear	Linear	Linear
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	< 2.5 : 1	< 2.5 : 1	< 2.5 : 1	< 2.5 : 1

MECHANICAL DATA				
Dimensions	Ø7 x 54 x 16.8 mm	Ø7 x 56 mm	Ø9 x 60 mm	Ø9 x 55 x 16.5 mm
Weight	8 g	5 g	5.8 g	7.44 g
Operating Temperature	-20 °C to 60 °C	-30 °C to 90 °C	-40 °C to 85 °C	-40 °C to 85 °C
Mounting	Screw	Screw	Screw	Screw
Connector	SMA 90° (m)	SMA(m)	SMA(m)	SMA 90° (m)

GSM/UMTS/LTE

Stick



ELECTRICAL DATA	AO-AGSM-FMEK	AO-AGSM-SMAK	AO-AUMTS-SRPK	AO-AGSM-TG09
	Cellular Antenna Stick FMEK	Cellular Antenna Stick SMAK	Cellular Antenna Stick SRPK	Cellular Antenna Stick TG09
Working Frequency	800/900/1700/2100 MHz	900/960/1700/1800/1900/2100 MHz	800/900/1800/1900/2100 MHz	800/900/1800/1900/2100 MHz
Directivity	Omni-Directional	Omni-Directional	Omni-Directional	Omni-Directional
Gain	2 dBi	2 dBi	2 dBi	2 dBi
Polarization	Linear	Linear	Linear	Linear
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	< 2.5 : 1	< 2.8 : 1	< 2.6 : 1	< 2.0 : 1

MECHANICAL DATA				
Dimensions	90°: 87,4 x 37,5 x 9,3 mm 180°: Ø9.3 x 114 mm	90°: 88 x 31 x 9,3 mm 180°: Ø9.3 x 108 mm	90°: 26,6 x 87,3 x 9,3 mm 180°: Ø9.3 x 104 mm	90°: 46,7 x 29,7 x 10 mm 180°: Ø10 x 70.7 mm
Weight	11 g	12 g	12 g	9 g
Operating Temperature	-20 °C to 60 °C	-20 °C to 60 °C	-20 °C to 60 °C	-20 °C to 60 °C
Mounting	Screw	Screw	Screw	Screw
Connector	FME(f)	SMA(m)	SMA-RP(f pin)	SMA(m)

GSM/UMTS/LTE Stick



	AO-ALTE-FSMAK	AO-ALTE-SMA5	AO-ALTE-G410LS	AO-ALTE-FSMAK3
ELECTRICAL DATA	Cellular Antenna Stick FSMAK	Cellular Antenna FLAT Stick 690-2700 MHz	Cellular Antenna Stick 90°/180° 410L	Cellular Antenna FLAT Stick 90°/180°
Working Frequency	700/800/900/1800/ 1900/2100/2300/2400/ 2500/2600/2700 MHz	800/900/1800/ 1900/2100/2300/2400/ 2500/2600 MHz	700/800/900/1700/1800/ 1900/2100/2600 MHz	700/800/900/1800/ 1900/2100/2300/2400/ 2500/2600/2700 MHz
Directivity	Omni-Directional	Omni-Directional	Omni-Directional	Omni-Directional
Gain	0-3 dBi	0-5 dBi	3 dBi	3 dBi
Polarization	Linear	Linear	Linear	Linear
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	< 2.5 : 1	< 2.5 : 1	< 3 : 1	< 2.0 : 1

	AO-ALTE-FSMAK	AO-ALTE-SMA5	AO-ALTE-G410LS	AO-ALTE-FSMAK3
MECHANICAL DATA	Cellular Antenna Stick FSMAK	Cellular Antenna FLAT Stick 690-2700 MHz	Cellular Antenna Stick 90°/180° 410L	Cellular Antenna FLAT Stick 90°/180°
Dimensions	90°: 177 x 38,2 x 10 mm 180°: 20 x 10 x 201 mm	12.5 x 193 mm	90°: 173 x 32 x 8 mm 180°: Ø8 x 198 mm	90°: 144 x 32 x 13 mm 180°: Ø8 x 173 mm
Weight	23 g	28 g	27 g	23 g
Operating Temperature	-10 °C to 50 °C	-30 °C to 80 °C	-40 °C to 85 °C	-10 °C to 50 °C
Mounting	Screw	Screw	Screw	Screw
Connector	SMA(m)	SMA(m)	SMA(m)	SMA(m)

GSM/UMTS/LTE

Stick



	AO-ALTE-MG5SP	AO-ALTE-FSMAK5
ELECTRICAL DATA	Cellular Antenna Stick MG5	Cellular Antenna FLAT Stick 90°/180°
Working Frequency	700/800/900/1800/ 1900/2100 MHz	700/800/900/1800/ 1900/2100/2300/2400/ 2500/2600/2700 MHz
Directivity	Omni-Directional	Omni-Directional
Gain	5 dBi	5 dBi
Polarization	Linear	Linear
Impedance	50 Ω	50 Ω
VSWR	< 3.5 : 1	< 2.0 : 1

MECHANICAL DATA		
Dimensions	90°: 217 x 37,3 x 16,2 180°: Ø13 x 240 mm	90°: 36,6 x 209 x 24 180°: 24 x 223 mm
Weight	38 g	39.75 g
Operating Temperature	-20 °C to 55 °C	-10 °C to 50 °C
Mounting	Screw	Screw
Connector	SMA(m)	SMA(m)

CDMA



	AO-ACDMA-MGS	AO-ACDMA-OM55	AO-ACDMA-MA80	AO-ACDMA-MG45
ELECTRICAL DATA	CDMA Antenna Magnetic MG	CDMA Antenna Mounting OM55	CDMA Antenna Wall Mount MA80	CDMA Antenna Magnetic MG45
Working Frequency	410/470 MHz	410/470 MHz	450 MHz	450 MHz
Directivity	Omni-Directional	Omni-Directional	Omni-Directional	Omni-Directional
Gain	0 dBi	7 dBi	7 dBi	1.28 dBi
Polarization	Linear	Linear	Linear	Linear
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	< 2.0 : 1	< 2.0 : 1	< 1.05 : 1	< 1.6 : 1

	AO-ACDMA-MGS	AO-ACDMA-OM55	AO-ACDMA-MA80	AO-ACDMA-MG45
MECHANICAL DATA				
Dimensions	Ø30 × 163 mm	Ø18 × 975 mm	Ø20 × 496 mm	Ø81 × 147 mm
Weight	49 g	580 g	640 g	223 g
Operating Temperature	-40 °C to 85 °C	-40 °C to 85 °C	-20 °C to 60 °C	-40 °C to 85 °C
Mounting	Magnetic	U-bolt/Mast	Screw	Magnetic
Cable	RG174/U, 3m ¹⁾	N/A	RG58/U, 3m ¹⁾	RG174/U, 3m ¹⁾
Connector	SMA(m) ²⁾	N(f)	FME(f) ²⁾	SMA(m) ²⁾



1) other cable length options on request

2) for other connector options see page 42- 45

DVB-T



	AO-ADVB-T-45P	AO-ADVB-T-05P
ELECTRICAL DATA	DVB-T Antenna Magnetic 45	DVB-T Antenna Magnetic 05
Working Frequency	470 ~ 864 MHz	173 ~ 230 MHz 470 ~ 864 MHz
Directivity	Omni-Directional	Omni-Directional
Gain	0 dBi	3 dBi
Polarization	Linear	Linear
Impedance	75 Ω	75 Ω
VSWR	< 2.0 : 1	< 1.8 : 1

MECHANICAL DATA

Dimensions	Ø80 × 135 mm	Ø50 × 337 mm
Weight	380 g	225 g
Operating Temperature	-40 °C to 85 °C	-40 °C to 85 °C
Mounting	Magnetic	Magnetic
Cable	3C2V, 3.5m	3C2V, 3.5m
Connector	IEC	IEC



1) other cable length options on request

2) for other connector options see page 42- 45

GPS/GLONASS Magnetic



ELECTRICAL DATA

	AP-A20S-M3	AP-AGNSS-SMA	AP-AGNSS-A057S
	GPS Antenna Magnetic EA-200	GPS/GLONASS Antenna Magnetic GNSS	GPS/GLONASS Antenna Magnetic A057
Centre Frequency GPS	1575.42 MHz	1575.42 MHz	1575.42 MHz
Centre Frequency GLONASS		1602 MHz	1602 MHz
Bandwidth	2 MHz	8/16 MHz	5 MHz
Polarization	RHCP	RHCP	RHCP
Gain GPS	27 dBi	25 dBi	28 dBi
Gain GLONASS		18 dBi	28 dBi
Impedance	50 Ω	50 Ω	50 Ω
VSWR	< 2.0 : 1	< 2.0 : 1	< 1.5 : 1
Input Voltage	2.5 V - 5.5 V	2.5 V - 5 V	2.2 V - 5 V

MECHANICAL DATA

Dimensions	38 × 34 × 12.6 mm	37,5 × 34,5 × 12,5 MM	52.5 × 59.2 × 15 mm
Weight	70 g	56 g	70 g
Operating Temperature	-30 °C to 80 °C	-40 °C to 85 °C	-40 °C to 85 °C
Mounting	Magnetic	Magnetic	Magnetic
Cable	RG174/U, 3m ¹⁾	RG174/U, 3m ¹⁾	RG174/U, 3m ¹⁾
Connector	SMA(m) ²⁾	SMA(m) ²⁾	SMA(m) ²⁾



1) other cable length options on request

2) for other connector options see page 42- 45

GPS/GLONASS SMT Patch



ELECTRICAL DATA	AP-AP-SGP18	AP-AP-PIFA01	AP-AGNSS-SGP15-4	AP-AGNSS-SGP18-4
	GPS Antenna SMT Patch SGP	GPS Antenna SMT Patch PIFA	GPS/GLONASS Antenna SMT Patch SGP	GPS/GLONASS Antenna SMT Patch SGP18
Centre Frequency GPS	1575.42 MHz	1575.42 MHz	1575.42 MHz	1575.42 MHz
Centre Frequency GLONASS			1602 MHz	1602 MHz
Bandwidth	5 MHz	20 MHz	16 MHz	16 MHz
Polarization	RHCP	RHCP	RHCP	RHCP
Gain	1 dBi	1.5 dBi	0 dBi	1.5 dBi
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	< 1.5 : 1	< 2.0 : 1	< 1.8 : 1	< 1.5 : 1
Input Voltage	1.5 V	2.0 V	1.8 V	1.5 V

MECHANICAL DATA				
Dimensions	18 × 18 × 4 mm	10 × 4 × 3 mm	15 × 15 × 4 mm	18 × 18 × 4 mm
Weight	6.2 g	0.4 g	4.54 g	5.76 g
Operating Temperature	-40 °C to 105 °C	-30 °C to 85 °C	-40 °C to 105 °C	-40 °C to 105 °C
Mounting	SMT Patch	SMT Patch	SMT Patch	SMT Patch

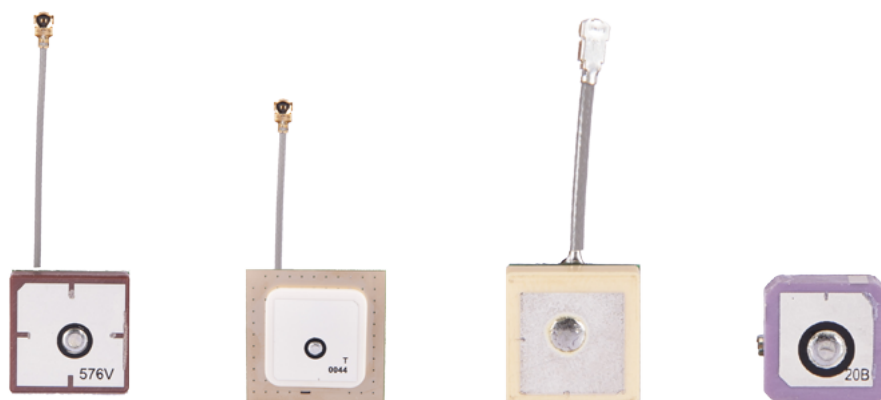
GPS/GLONASS PIN Patch



ELECTRICAL DATA	AP-AP-GP18-2	AP-AGNSS-GP25-4	AP-AP-GP25-4
	GPS Antenna Pin Patch GP18	GPS/GLONASS AntennaPin Patch GP25	GPS Antenna Pin Patch GP25
Centre Frequency GPS	1575.42 MHz	1575.42 MHz	1575.42 MHz
Centre Frequency GLONASS		1602 MHz	
Bandwidth	5 MHz	26 MHz	10 MHz
Polarization	RHCP	RHCP	RHCP
Gain	0 dBi	0.5 dBi/2 dBi	3.5 dBi
Impedance	50 Ω	50 Ω	50 Ω
VSWR	< 1.5 : 1	< 1.5 : 1	< 1.8 : 1
Axial Ratio	3 dB	3 dB	3 dB

MECHANICAL DATA			
Dimensions	18 × 18 × 2.2 mm	25 × 25 × 4 mm	25 × 25 × 4 mm
Weight	3.18 g	9.4 g	9.41 g
Operating Temperature	-40 °C to 105 °C	-40 °C to 105 °C	-40 °C to 105 °C
Mounting	Pin Patch	Pin Patch	Pin Patch

GPS/GLONASS Antenna Module



ELECTRICAL DATA	AP-AA17-15U	AP-AP25-16U	AP-AA12-24U	AP-AP10FSF-25SM
	GPS Antenna Module AA17-15	GPS Antenna Module AP25-16	GPS Antenna Module AA12-24	GPS Antenna Module AP10FSF
Centre Frequency GPS	1575.42 MHz	1575.42 MHz	1575.42 MHz	1575.42 MHz
Centre Frequency GLONASS				
Polarization	RHCP	RHCP	RHCP	RHCP
Gain	15 dBi	16 dBi	24 dBi	20 - 25 dBi
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	< 2.0 : 1	< 2.0 : 1	< 2.0 : 1	< 2.0 : 1
Axial Ratio	3 dB	3 dB	3 dB	4 dB
Input Voltage	2.7 - 3.3 V	2.7 - 3.3 V	3 V	1.8 - 5.5 V

MECHANICAL DATA				
Dimensions	17 × 17 × 6.3 mm	35 × 35 × 4.49 mm	13 × 13 × 6,85 mm	10 × 10 × 11 mm
Weight	6.55 g	7.1 g	3.68 g	4.9 g
Operating Temperature	-20 °C to 65 °C	-30 °C to 80 °C	-40 °C to 85 °C	-40 °C to 85 °C
Mounting	Adhesive	Adhesive	Adhesive	SMT
Cable	Ø 1.13, 40 mm	Ø 1.13, 52 mm	Ø 1.37, 57 mm	N/A
Connector	IPX MHF I(f) R/A	IPX MHF I(f) R/A	U.FL(f) R/A	N/A

GPS/GLONASS Antenna Module



	AP-AP10-25U	AP-AP22-27H	AP-AGNSS-GA25-4-27	AP-AP25-30
ELECTRICAL DATA	GPS Antenna Module AP10-25	GPS/GLONASS Antenna Module AP22	GPS/GLONASS Antenna Module GA25-4	GPS Antenna Module AP25-30
Centre Frequency GPS	1575.42 MHz	1575.42 MHz	1575.42 MHz	1575.42 MHz
Centre Frequency GLONASS		1602 MHz	1602 MHz	
Polarization	RHCP	RHCP	RHCP	RHCP
Gain	21 - 25 dBi	28 dBi	28 dBi	30 dBi
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	< 2.0 : 1	< 2.0 : 1	< 2.0 : 1	< 2.0 : 1
Axial Ratio	4.0 dB	3.0 dB	3.0 dB	4.0 dB
Input Voltage	1,8 - 3,3 V	2,5 - 5 V	2,5 - 5 V	2,5 - 5,5 V

MECHANICAL DATA

Dimensions	10 × 10 × 6 mm	22 × 21 × 7,5 mm	25 × 25 × 4 mm	25 × 25 × 8 mm
Weight	2.86 g	11.86 g	12 g	12 g
Operating Temperature	-40 °C to 85 °C	-40 °C to 85 °C	-40 °C to 105 °C	-30 °C to 80 °C
Mounting	Adhesive	Adhesive	Adhesive	Adhesive
Cable	RF, 50 mm	RF, 85 mm	RF, 100 mm	Ø 1.13, 80 mm / RG174/U, 5m ¹⁾
Connector	IPEX MHF I(f) R/A	H.FL R/A	U.FL(f) R/A	IPX MHF I(f) R/A, SMA(m) ²⁾



1) other cable length options on request

2) for other connector options see page 42- 45

GPS/GLONASS Adhesive



ELECTRICAL DATA

	AP-AGNSS-20B	AP-AGNSS-30S	AP-AGNSS-A002S	AP-AGNSS-40S
	GPS/GLONASS Antenna Adhesive 20	GPS/GLONASS Antenna Adhesive 30	GPS/GLONASS Antenna Adhesive 002	GPS/GLONASS Antenna Adhesive 40
Centre Frequency GPS	1575.42 MHz	1575.42 MHz	1575.42 MHz	1575.42 MHz
Centre Frequency GLONASS	1602 MHz	1602 MHz	1602 MHz	1602 MHz
Bandwidth	8 MHz	10 MHz		10 MHz
Polarization	RHCP	RHCP	RHCP	RHCP
Gain	20 dBi	27 dBi	28 dBi	30 dBi
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	< 2.0 : 1	< 1.8 : 1	< 2.0 : 1	< 2.0 : 1
Input Voltage	1.6 V	2.7-5V DC	2.2-5V DC	3.3 V

MECHANICAL DATA

Dimensions	34.2 × 38.2 × 13.6 mm	Ø50.4 × 17 mm	36 × 45 × 15.1 mm	Ø71 × 12 mm
Weight	61 g	63g	65 g	91.5 g
Operating Temperature	-40 °C to 85 °C	-40 °C to 85 °C	-40 °C to 85 °C	-40 °C to 85 °C
Mounting	Adhesive	Adhesive	Adhesive	Adhesive
Cable	RG174/U, 0.5m ¹⁾	RG174/U, 3m ¹⁾	RG174/U, 3m ¹⁾	RG174/U, 5m ¹⁾
Connector	SMB(f) ²⁾	SMA(m) ²⁾	SMA(m) ²⁾	SMA(m) ²⁾



1) other cable length options on request

2) for other connector options see page 42- 45

GPS/GLONASS Mounting



ELECTRICAL DATA

	AP-AGNSS-A601S	AP-AGNSS-A003S	AP-AGPS-A225T	AP-AGPS-A005N
	GPS/GLONASS Antenna Mounting 601	GPS/GLONASS Antenna Mounting 003	GPS Antenna Mounting Marine 225	GPS Antenna Mounting Marine 005
Centre Frequency GPS	1575.42 MHz	1575.42 MHz	1575.42 MHz	1575.42 MHz
Centre Frequency GLONASS	1602 MHz	1602 MHz		
Bandwidth	5 MHz	5 MHz		
Polarization	RHCP	RHCP	RHCP	RHCP
Gain	28 dBi	28 dBi	40 dBi	42 dBi
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	< 1.5 : 1	< 1.5 : 1	< 1.5 : 1	< 1.5 : 1
Input Voltage	2.2-5 V DC	2.2-5 V DC	2.7 - 10 V DC	3 - 5 V DC

MECHANICAL DATA

Dimensions	Ø68 x 34.8 mm	Ø46.6 x 16.3 mm	Ø66.5 x 46.1 mm	Ø93.5 x 133 mm
Weight	201 g	75 g	250 g	507 g
Operating Temperature	-40 °C to 85 °C	-40 °C to 85 °C	-40 °C to 85 °C	-40 °C to 85 °C
Mounting	Mounting	Mounting	Mounting	Mounting
Cable	RG174/U, 3m ¹⁾	RG174/U, 0.3m ¹⁾	N/A	RG58/U, 1m ¹⁾
Connector	SMA(m) ²⁾	SMA(m) ²⁾	TNC(f)	N(m) ²⁾



1) other cable length options on request

2) for other connector options see page 42- 45

GPS/GLONASS Mounting



ELECTRICAL DATA

	AP-AGNSS-36S	AP-AGPS-10T
	GPS/GLONASS Antenna Mounting 36	GPS/GLONASS Antenna Mounting 10T
Centre Frequency GPS	1575.42 MHz	1575.42 MHz
Centre Frequency GLONASS	1602 MHz	1602 MHz
Bandwidth	10 MHz	10 MHz
Polarization	RHCP	RHCP
Gain	30 dBi	30 dBi
Impedance	50 Ω	50 Ω
VSWR	< 2.0 : 1	< 2.0 : 1
Input Voltage	1.6 V DC	2,5 - 5.5 V

MECHANICAL DATA

Dimensions	Ø54.7 × 23.3 mm	Ø78 × 139.5 mm
Weight	95 g	120 g
Operating Temperature	-40 °C to 85 °C	-40 °C to 80 °C
Mounting	Mounting	Mounting
Cable	RG174/U, 3m ¹⁾	RG195/U, 20m ¹⁾
Connector	SMA(m) ²⁾	TNC(f) ²⁾



1) other cable length options on request

2) for other connector options see page 42- 45

WI-FI, WLAN Mounting



	AO-1GF-2412	AO-1GF-51810	AO-1GF-51815	AW-A2458G-36SR
ELECTRICAL DATA	WIFI Antenna OMNI 2412	WIFI Antenna OMNI 51810	WIFI Antenna OMNI 51815	WIFI Antenna Mounting 36
Working Frequency	2.4 GHz	5 GHz	5 GHz	2.4/5 GHz
Power handlink	50 W	50 W	50 W	10 W
Directivity	Omni-Directional	Omni-Directional	Omni-Directional	Omni-Directional
Gain	12 dBi	10 dBi	15 dBi	0-3 dBi
Polarization	Linear	Linear	Linear	Linear
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	< 1.5 : 1	< 1.5 : 1	< 1.5 : 1	< 2.0 : 1

	AO-1GF-2412	AO-1GF-51810	AO-1GF-51815	AW-A2458G-36SR
MECHANICAL DATA				
Wind survival	150 mph	150 mph	150 mph	150 mph
Dimensions	Ø26 × 1050 mm	Ø26 × 520 mm	Ø26 × 740 mm	15 Ø52.7 × 27.4 mm 2 g
Weight	820 g	430 g	520 g	152 g
Operating Temperature	-40 °C to 85 °C	-40 °C to 85 °C	-40 °C to 85 °C	-40 °C to 85 °C
Mounting	U-bolt/Mast	U-bolt/Mast	U-bolt/Mast	Mounting
Cable	N/A	N/A	N/A	RG58/U, 3m ¹⁾
Connector	N(f)	N(f)	N(f)	RSMA(f pin)



1) other cable length options on request

2) for other connector options see page 42- 45

WI-FI, WLAN

Magnetic



AW-A24G-G069SRP

ELECTRICAL DATA

WiFi Antenna Magnetic 016W

Working Frequency	2.4 GHz
Power handling	10 W
Directivity	Omni-Directional
Gain	2 dBi
Polarization	Linear
Impedance	50 Ω
VSWR	< 2.0 : 1

MECHANICAL DATA

Dimensions	$\varnothing 29.5 \times 121$ mm
Weight	54 g
Operating Temperature	-40 °C to 85 °C
Mounting	Magnetic
Cable	RG174, 3m ¹⁾
Connector	SMA-RP(f pin) ²⁾



1) other cable length options on request

2) for other connector options see page 42- 45

WI-FI, WLAN Stick



	AW-A24G-2NRAB	AW-A24G-TRPK	AW-A24G-W402SRP	AW-A2458G-FSRPK
ELECTRICAL DATA	WI-FI Antenna Stick 2NRAB	WI-FI Antenna Stick TRPK	WiFi Antenna Stick 90°/180° 402	WLAN Antenna Stick FSRPK
Working Frequency	2.4 GHz	2.4 GHz	2.4 GHz	2.4/5 GHz
Power Handlink	10 W	10 W	10 W	10 W
Directivity	Omni-Directional	Omni-Directional	Omni-Directional	Omni-Directional
Gain	2 dBi	2 dBi	3 dBi	3 dBi/5 dBi
Polarization	Linear	Linear	Linear	Linear
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	< 2.0 : 1	< 2.0 : 1	< 2.0 : 1	< 2.0 : 1

MECHANICAL DATA

Dimensions	32.8 × 90 × 20.9 mm	90°: 112 × 43.3 × 13 mm 180°: Ø13 × 142 mm	90°: 86 × 32,4 × 9,6 mm 180°: Ø10 × 108.5 mm	90°: 115 × 38.5 × 10 mm 180°: 138 × 20 × 10 mm
Weight	45 g	23 g	10 g	17 g
Operating Temperature	-30 °C to 90 °C	-40 °C to 85 °C	-40 °C to 85 °C	-30 °C to 60 °C
Mounting	Screw	Screw	Screw	Screw
Connector	N(m) 90°	TNC-RP(f pin)	SMA-RP(f pin)	SMA-RP(f pin)

WI-FI, WLAN Stick



ELECTRICAL DATA	AW-A24G-M5SRP	AW-A2458G-SRPK
	WIFI Antenna Stick M5SPR	WIFI Antenna Stick SRPK
Working Frequency	2.4 GHz	2.4/5 GHz
Power Handlink	10 W	10 W
Directivity	Omni-Directional	Omni-Directional
Gain	5 dBi	5 dBi
Polarization	Linear	Linear
Impedance	50 Ω	50 Ω
VSWR	< 2.0 : 1	< 2.0 : 1

MECHANICAL DATA		
Dimensions	90°: 169 × 9,3 × 26.7 mm 180°: Ø9.3 × 186 mm	90°: 112 × 13.5 × 37.5 mm 180°: Ø13.5 × 136 mm
Weight	15 g	18 g
Operating Temperature	-30 °C to 90 °C	-40 °C to 85 °C
Mounting	Screw	Screw
Connector	SMA-RP(f pin)	SMA-RP(f pin)

WI-FI, WLAN Adhesive



AW-A24G-G017WSRP

ELECTRICAL DATA

WiFi Antenna Adhesive 017W

Working Frequency	2.4 GHz
Power Handlink	10 W
Directivity	Omni-Directional
Max. Gain	2 dBi
Polarization	Linear
Impedance	50 Ω
VSWR	< 2.0 : 1

MECHANICAL DATA

Dimensions	115.6 x 21.7 x 5.8
Weight	70 g
Operating Temperature	-40 °C to 85 °C
Mounting	Adhesive
Cable	RG174, 3m ¹⁾
Connector	SMA-RP(f pin) ²⁾



1) other cable length options on request

2) for other connector options see page 42- 45

COMBINATION



ELECTRICAL DATA	AO-AKOM-36TG	AO-AKOM-B008SS	AO-AKOM-30	AO-AKOM-36
	TETRA + GPS Antenna Mounting 36	Cellular + GPS Antenna Magnetic 008	Cellular + GPS Antenna Adhesive 30	Cellular + GPS Antenna Mounting 36
Working Frequency	400 MHz	900/1700/1800/ 1900/2100 MHz	900/1800/1900/ 2100 MHz	900/1700/1800/ 1900/2100 MHz
Directivity	Omni-Directional	Omni-Directional	Omni-Directional	Omni-Directional
Max. Gain	0 dBi	2 dBi	0 dBi	0 dBi
Polarization	Linear	Linear	Linear	Linear
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	< 2.0 : 1	< 2.0 : 1	< 2.0 : 1	< 2.0 : 1

GNSS

Centre Frequency GPS	1575.42 MHz	1575.42 MHz	1575.42 MHz	1575.42 MHz
Centre Frequency GLONASS				
Bandwidth		5 MHz		
Polarization	RHCP	RHCP	RHCP	RHCP
Max. Gain	30 dBi	28 dBi	30 dBi	30 dBi
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	< 2.0 : 1	< 2.0 : 1	< 2.0 : 1	< 2.0 : 1
Input Voltage	2.7 - 5.5 V	2.2 - 5 V	2.7 - 5.5 V	2.7 - 5.5 V

MECHANICAL DATA

Dimensions	Ø55 × 147 mm	Ø80.4 × 14.5 mm	Ø50 × 17 mm	Ø52.7 × 23.3 mm
Weight	340 g	150 g	158 g	133 g
Operating Temperature	-40 °C to 85 °C	-40 °C to 85 °C	-40 °C to 85 °C	-40 °C to 85 °C
Mounting	Mounting	Magnetic	Adhesive	Mounting
Cable	RG174/U, 5m ¹⁾ RG58, 5m	2× RG174/U, 3m ¹⁾	2× RG174/U, 5m ¹⁾	2× RG174/U, 3m ¹⁾
Connector	BNC(m), SMB(m) ²⁾	2× SMA(m) ²⁾	FME(f), SMA(m), FAKRA C(f), FAKRA D(f), SMA-RP(f), SMA(m) ²⁾	FME(f), SMA(m) ²⁾



1) other cable length options on request

2) for other connector options see page 42- 45

COMBINATION



ELECTRICAL DATA

	AO-AKOM-40	AO-AKOM-36SS	AO-AKOM-B062SS
	Cellular + GNSS Antenna Mounting 40	Cellular + GPS Antenna Mounting 36	Cellular + GPS Antenna Mounting 062
Working Frequency	900/1700/1800/1900/ 2100 MHz	900/1800/1900/2100 2600/2700 MHz	900/1700/1800/1900/ 2100 MHz
Directivity	Omni-Directional	Omni-Directional	Omni-Directional
Max. Gain	0 dBi	0 dBi	2 dBi
Polarization	Linear	Linear	Linear
Impedance	50 Ω	50 Ω	50 Ω
VSWR	< 2.0 : 0	< 2.0 : 1	< 2.0 : 1

GNSS

Centre Frequency GPS	1575.42 MHz	1575.42 MHz	1575.42 MHz
Centre Frequency GLONASS	1602 MHz		
Bandwidth	10 MHz	10 MHz	5 MHz
Polarization	RHCP	RHCP	RHCP
Max. Gain	27 dBi	30 dBi	28 dBi
Impedance	50 Ω	50 Ω	50 Ω
VSWR	< 2.0 : 0	< 2.0 : 1	< 2.0 : 1
Input Voltage	2.7 - 5.5 V	2.7 - 5.5 V	2.2 - 5 V

MECHANICAL DATA

Dimensions	Ø71 × 12 mm	Ø52.7 × 23.3 mm	Ø50 × 48 mm
Weight	175 g	122 g	145 g
Operating Temperature	-40 °C to 85 °C	-40 °C to 85 °C	-40 °C to 85 °C
Mounting	Adhesive	Mounting	Mounting
Cable	2× RG174/U, 3m ¹⁾	RG174/U, 3m RG316/U, 3m ¹⁾	RG174/U, 3m ¹⁾
Connector	FME(f), SMA(m), open ²⁾	2× SMA(m) ²⁾	2× SMA(m) ²⁾



1) other cable length options on request

2) for other connector options see page 42- 45

COMBINATION



	AO-AKOM-36GW	AO-AKOMWP-36	AO-AKOM-40WP-SS	AO-AKOM-41
ELECTRICAL DATA	WIFI + GSM Antenna Mounting 36	WIFI + GPS Antenna Mounting 36	WIFI + GPS/ GLONASS Antenna Adhesive 40WP	UMTS + WIFI + GPS Antenna Mounting 41
Working Frequency	900/1800/2100 MHz 2.4 GHz	2.4/5 GHz	2.4 GHz	900/1800/2100 MHz 2.4/5.8 GHz
Directivity	Omni-Directional	Omni-Directional	Omni-Directional	Omni-Directional
Max. Gain	0 dBi / 2 dBi	2 dBi	2 dBi	0 dBi / 2 dBi
Polarization	Linear	Linear	Linear	Linear
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	< 2.0 : 1	< 2.0 : 1	< 2.0 : 1	< 2.0 : 1

GNSS

Centre Frequency GPS		1575.42 MHz	1575.42 MHz	1575.42 MHz
Centre Frequency GLONASS			1602 MHz	
Bandwidth		10 MHz	10 MHz	10 MHz
Polarization		RHCP	RHCP	RHCP
Max. Gain		30 dBi	30 dBi	30 dBi
Impedance		50 Ω	50 Ω	50 Ω
VSWR		< 2.0 : 1	< 2.0 : 1	< 2.0 : 1
Input Voltage		2.7 - 5.5 V		2.7 - 5.5 V

MECHANICAL DATA

Dimensions	Ø54.7 × 23.3 mm	Ø54.7 × 23.3 mm	Ø71 × 12 mm	Ø80 × 25 mm
Weight	133 g	133 g	81.45 g	192 g
Operating Temperature	-40 °C to 85 °C	-40 °C to 85 °C	-40 °C to 85 °C	-40 °C to 85 °C
Mounting	Mounting	Mounting	Adhesive	Mounting
Cable	RG174/U, 3m RG316/U, 3m ¹⁾	RG174/U, 5m RG316/U, 5m ¹⁾	RG316/U, 5m RG174/U, 5m ¹⁾	3x RG174/U, 5m ¹⁾
Connector	2xSMA(m), SMA-RP(f pin) ²⁾	Open ²⁾	2x SMA(m) ²⁾	2x SMA(m), SMA-RP ²⁾



1) other cable length options on request

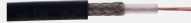
2) for other connector options see page 42- 45

RF ADAPTORS

Coaxial Cables

Společnost SECTRON s.r.o. nabízí ve svém produktovém portfoliu široký výběr koaxiálních kabelů od průměru 0.8 mm až po průměr 10 mm a skladem všechny běžně používané koaxiální konektory v mnoha provedeních. Díky vlastní výrobě je společnost schopná vyrobit 500 VF kabelových redukcí denně dle zákaznických potřeb. Na základě požadavku zákazníka pro úpravy těchto parametrů obchodní oddělení přijme požadavek, případně poskytne plnohodnotné poradenství, které vyhodnotí a připraví konkrétní řešení na míru pro daný typ. Takto připravený požadavek je zadán do výroby, kde za pomoci nejmodernějších technologií a díky bohatým zkušenostem v oboru zhotovíme VF kabelovou redukci. U antén, upravíme délku kabelu a osadíme požadovaný konektor.

SECTRON offers a wide range of coaxial cables in diameter from 0.8 to 10 mm and keeps a stock of various types of commonly used coaxial connectors in order to be able to meet customers' immediate needs. Using the latest state-of-the-art production equipment, we are capable of producing 500 pieces of RF cable adaptors per day. After receiving a customer request, our experienced sales team provides a full range of consulting services to deliver the best solution. Thereafter, the request is put into production, whereby the cable assembly is produced using the very latest processes and manufacturing technology. In regards to antennas, we can also accommodate individual orders for custom cable lengths and connectors.

Coaxial Cable				
Type	Diameter	Insertion loss		Picture
		1 GHz *	2 GHz **	
Cable 0.4 D	0.83 mm	2.89 dB	4.28 dB	
Cable 04	0.81 mm	3.07 dB	4.38 dB	
Cable 068	1.13 mm	2.00 dB	2.90 dB	
Cable 066	1.32 mm	2.08 dB	2.97 dB	
Cable088	1.37 mm	1.71 dB	2.48 dB	
RG178	1.80 mm	1.51 dB	-	
RG316	2.49 mm	0.96 dB	-	
RG174/ RF 100A HDF 100	2.80 mm	0.97/0.76 dB	-1.10 dB	
RG58	4.95 mm	0.53 dB	-	
Cable 195	4.95 mm	0.38 dB	0.56 dB	
Cable 240	6.10 mm	0.26 dB	0.38 dB	
Cable 400	10.16 mm	0.15 dB	0.21 dB	

* cable insertion loss (typical) for frequency 1 GHz and length of measured sample 1 meter

** cable insertion loss (typical) for frequency 2 GHz and length of measured sample 1 meter

Connector Adaptors

Součástí produktového portfolia společnosti SECTRON s.r.o. je také široká škála konektorových redukcí. Díky robustnímu designu a preciznímu provedení mají tyto komponenty výborné VF parametry i mechanickou odolnost pro použití v náročných podmínkách. Kromě redukcí pro standardně používané typy konektorů, nabízíme také modifikace a zakázkové designy pro přístroje vystavené prachu, tekutinám, nízkým teplotám a jiným náročným podmínkách. Přehled možných variant je patrný níže v tabulce.

Our product portfolio includes a wide range of connector adaptors that feature excellent electrical performance, rugged and precise design and mechanical resistance, thus enabling their use in the most demanding conditions. In addition to the adaptors for standard types of plugs and sockets, we also offer modifications and custom designs for devices that are exposed to dusty and humid conditions as well as low temperatures and other challenging conditions. The table below contains an overview of the possible variants you can use if you use our value-added supply services.

Code	Connector adaptor
AM-67-CAUF	Connector adaptor U.FL(m) FME(m) panel
AM-67-CAUS	Connector adaptor U.FL(m) SMA(f) panel
AO-FME-FME	Connector adaptor FME(m) FME(m)
AO-FMEM-SMAM	Connector adaptor FME(m) SMA(m)
AO-FMEM-SMAM-R	Connector adaptor FME(m) SMA(m)
AO-FME-SMA	Connector adaptor FME(f) SMA(f)
AO-FME-TNC	Connector adaptor FME(m) TNC(m)
AO-FM-SMR	Connector adaptor FME(m) SMA-RP(f pin)
AO-MCXM-IEC	Connector adaptor MCX(m) IEC
AO-SMAF-NM	Connector adaptor SMA(f) N(m)
AO-SMAF-SMBF	Connector adaptor SMA(f) SMB(f)
AO-SMAF-SMR	Connector adaptor SMA(f) SMA-RP(f pin)
AO-SMAM-NF	Connector adaptor SMA(m) N(f) panel
AO-SMAM-SMR	Connector adaptor SMA(m) SMA-RP(m pin)
AO-SMA-T	Connector adaptor SMA(m) 2x SMA(f)
AO-TNC-F	Connector adaptor TNC(m) F(f)

Coaxial Connectors

Coaxial Cable		BNC			HFL	UFL
Type	Diameter	Male	Female		Female	Female
		Cable straight	Cable straight	Panel BH	Cable R/A	Cable R/A
						
Cable 0.4 D	0.83 mm					
Cable 04	0.81 mm					•
Cable 068	1.13 mm					•
Cable 066	1.32 mm				•	•
Cable 088	1.37 mm					•
RG178	1.80 mm					
RG316	2.49 mm	•		•		
RG174/RF 100A/HDF 100	2.80 mm	•		•		
RG58	4.95 mm	•	•			
Cable 195	4.95 mm	•	•			
Cable 240	6.10 mm					
Cable 400	10.16 mm					

Coaxial Cable		FAKRA				
Type	Diameter	Male			Female	
		Cable straight	Panel BH	Panel Clip	Cable Straight	Cable R/A
						
Cable 0.4 D	0.83 mm					
Cable 04	0.81 mm					
Cable 068	1.13 mm		•	•		
Cable 066	1.32 mm		•	•		
Cable 088	1.37 mm		•	•		
RG178	1.80 mm					
RG316	2.49 mm	•			•	
RG174/RF 100A/HDF 100	2.80 mm	•			•	
RG58	4.95 mm					•
Cable 195	4.95 mm					•
Cable 240	6.10 mm					
Cable 400	10.16 mm					

R/A - Right Angle RP-Reverse Polarity BH - Bulkhead Connector

Coaxial Connectors

FME				N			
Male				Female	Male	Female	
Panel BH	Panel BH IP67	Panel Rear	Cable Straight	Cable Straight	Cable straight	Cable straight	Panel BH
							
.		.					
.		.					
.	.	.					
.	.	.					.
.	.	.					.
.		.					.
.		.	.	.	.	.	.
.		.	.	.	.	.	.
.			.	.	.	.	.
.			.	.	.	.	
				.	.		

SMA								
Male			Female					
Cable Straight	Cable R/A	Panel H11	Panel H8	Panel N typ	Panel R/A	Panel Switch	Cable Straight	Cable straight THD
								
		.						
		.						
		.	.	.				.
.	.	.	.	.	.	.		.
.	.	.	.	.	.	.		.
.	.	.			.			
.	.	.			.		.	
.	.	.					.	
.	.	.					.	
.								
.								

Coaxial Connectors

Coaxial Cable		MMCX			MC CARD	GSC
Type	Diameter	Male		Female	Male	Female
		Cable Straight	Cable R/A	Cable Straight	Cable R/A	Cable R/A
						
Murata 0.4 D	0.83 mm					•
Hirose 040	0.81 mm					
Hirose 068	1.13 mm					
Hirose 066	1.32 mm	•	•	•	•	
Hirose 088	1.37 mm	•	•	•	•	
RG178	1.80 mm	•	•	•	•	
RG316	2.49 mm	•	•	•	•	
RG174/RF 100A/HDF 100	2.80 mm	•	•	•	•	
RG58	4.95 mm					
Cable 195	4.95 mm					
Cable 240	6.10 mm					
Cable 400	10.16 mm					

Coaxial Cable		SMA-RP					
Type	Diameter	Male central pin				Female central pin	
		Panel H11	Panel H8	Panel N typ	Cable straight	Cable straight	Cable R/A
							
Cable 0.4 D	0.83 mm						
Cable 04	0.81 mm						
Cable 068	1.13 mm			•			
Cable 066	1.32 mm	•		•		•	
Cable 088	1.37 mm	•		•		•	
RG178	1.80 mm	•					
RG316	2.49 mm	•	•			•	
RG174/RF 100A/HDF 100	2.80 mm	•	•			•	
RG58	4.95 mm	•	•		•	•	•
Cable 195	4.95 mm	•	•		•	•	•
Cable 240	6.10 mm				•	•	
Cable 400	10.16 mm						

R/A - Right Angle RP-Reverse Polarity BH - Bulkhead Connector

Coaxial Connectors

MCX					MCX - RP	IPEX-MHX	IPEX-MH-F4L	SMP
Male		Female			Female	Female	Female	Female
Cable Straight	Cable R/A	Panel BH	Panel Switch	Cable Straight	Cable straight	Cable R/A	Cable R/A	Cable R/A
								
		•						
		•					•	
•	•	•	•					•
•	•	•	•			•		•
•	•	•						•
•	•	•		•	•			•
•	•	•		•	•			•

SMB					TNC		
Male			Female		Male	Female	
Cable Straight	Cable R/A	Panel BH	Cable Straight	Cable R/A	Cable Straight	Cable Straight	Panel BH
							
							•
							•
	•	•		•			•
	•	•		•			•
	•	•		•			•
•	•	•	•	•			•
•	•	•	•	•			•
					•	•	
					•	•	

PCB Connectors

MCXMCX

Male		Female					
EDGE	THD	EDGE		SMD		THD	
Straight	Straight	Straight	Straight	R/A	Straight	R/A	Straight
MME-01	MMT-01	MFE-01	MFE-02	MFS-01	MFS-02	MFT-01	MFT-02



MMCX

Male	Female						
EDGE	EDGE			SMD	THD		
Straight	Straight	Straight	Straight	Straight	Straight	Straight	R/A
CME-01	CFE-01	CFE-02	CFE-03	CFS-01	CFT-01	CFT-02	CFT03



MMCX

SMA

SMA-RP

Female		Female				Male	
THD		EDGE	THD			SMB	
Straight	R/A	Straight	Panel straight	Straight	Cable straight	Straight	R/A
CFT-04	CFT-05	SFE-01	SFT-01	SFT-02	SFT-03	SRPMS-01	SRPMS-02



SMA-RP

SMB

Male					Male		
THD					SMD		THD
Panel R/A	Panel straight	Straight	Straight	R/A	Straight	R/A	Straight
SRPMT-01	SRPMT-02	SRPMT-03	SRPMT-04	SRPMT-05	BMS-01	BMS-02	BMT-01



SMB

Male				Female			
THD				SMD		THD	
Panel straight	Panel R/A	R/A	Cable straight	Straight	R/A	R/A	Straight
BMT-02	BMT-03	BMT-04	BMT-05	BFS-01	BFS-02	BFT-01	BFT-02



SECTRON s.r.o.

Josefa Šavla 12
Ostrava - Mariánské Hory
Česká Republika

DIČ: CZ64617939

O NÁS

SECTRON s.r.o. je česká distribuční a výrobní společnost se zaměřením na bezdrátové průmyslové technologie s 20letou tradicí a celosvětovým renomé. Jsme autorizovaný distributor aktivních elektronických komponentů renomovaných značek a nabízíme široké spektrum pasivních dílů včetně vlastní výroby kabelových redukcí, svazků a antén. Našími zákazníky jsou především výrobní společnosti s vlastním vývojem, systémoví integrátoři a distributoři M2M produktů. Díky rozsáhlým zkušenostem v těchto oblastech jsme schopni poskytovat komplexní řešení pro široké spektrum aplikací M2M a nabídnout kvalitní výrobky a služby od nápadu až po realizaci.

VEDENÍ SPOLEČNOSTI

ceo@sectron.cz

ZAHRANIČNÍ OBCHOD

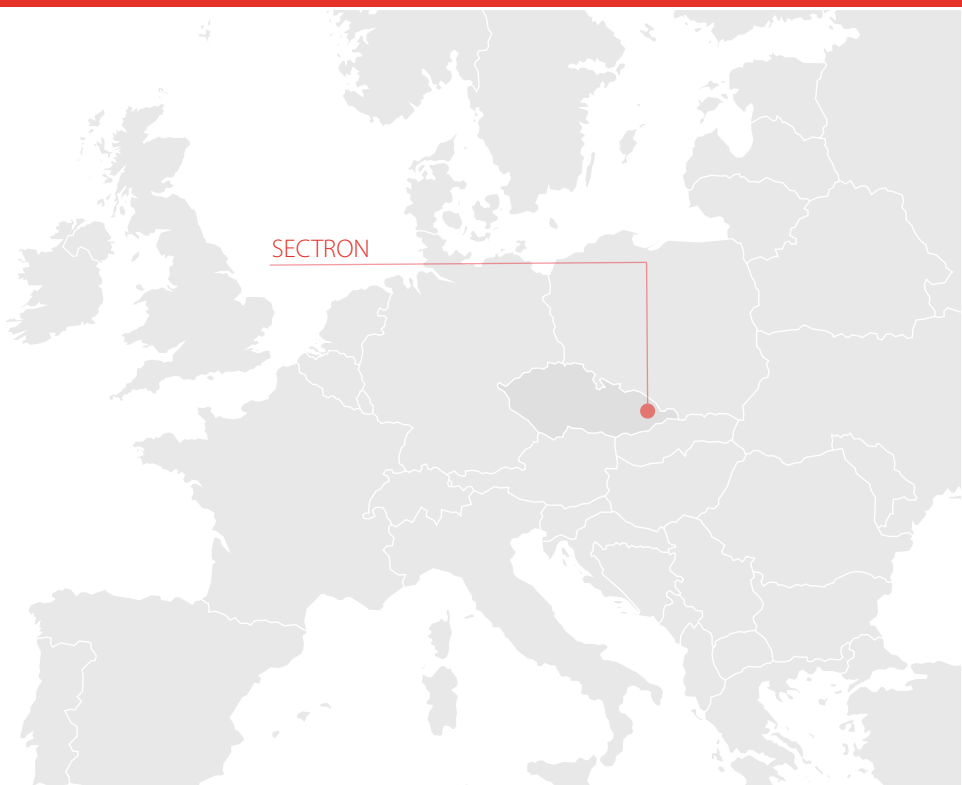
sales@sectron.cz

TUZEMSKÝ OBCHOD

obchod@sectron.cz

HOTLINE

hotline@sectron.cz



1995 - Založení společnosti
2000 - Autorizovaný distributor
SIEMENS Wireless Modules
(GEMALTO M2M)
2001 - Autorizovaný distributor
Leadtek Research
2001 - Zahájení výroby
kabelových redukcí
2003 - Zahájení OEM výroby
na Tchaj-wanu
2005 - Autorizovaný distributor
EZURIO (Laird Technologies)
2006 - Autorizovaný distributor
Conel
2010 - Autorizovaný distributor
Trimble
2013 - Autorizovaný distributor
Robustel
2014 - Navázání partnerství
ELATEC
2015 - Autorizovaný distributor
Andra
2016 - Nové sídlo

