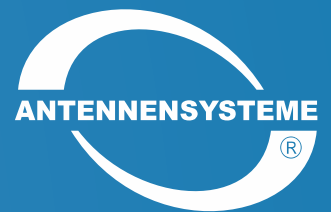


MULTIBAND
DAB/DVB-T
WLAN ISM AM/FM
LTE 868/433

ANTENNENTECHNIK
BAD BLANKENBURG GmbH



CAR MULTIMEDIA ANTENNAS | product catalogue

Antennentechnik Bad Blankenburg GmbH develops and manufactures **antenna systems** according to the highest technological and qualitative requirements and standards of the **automotive industry**, public authorities, distributive trades and specialized industrial operators. Our strong flexibility coupled with a broad product portfolio enables us to meet varying market situations and **customer demands**. The company is well established and highly respected within the antenna industry. We have invested heavily in latest measurement equipment, simulation software and industrial facilities for R&D and production. Our product portfolio includes car antennas, **integrated antenna solutions**, antennas for devices and antenna systems that cover a wide frequency-range in a wide variety of applications.

ADVANCED
GPS
VIEW
3-1-1



ADVANCED
GPS
VIEW
3-1-1

THE ONE STOP SHOP FOR ANTENNA



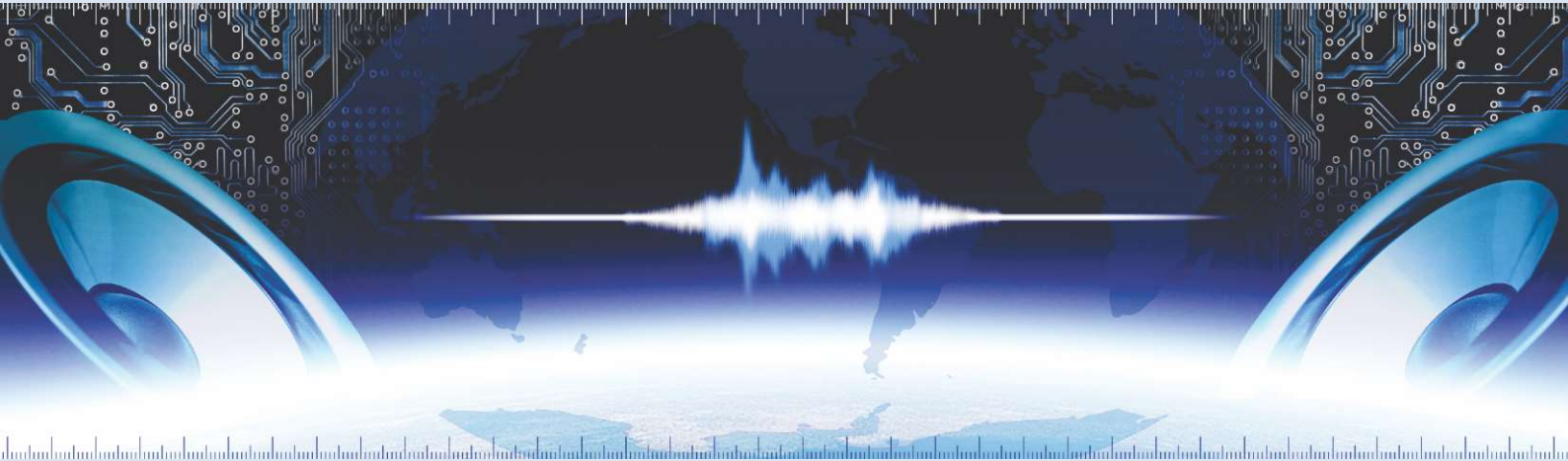
Antennentechnik Bad Blankenburg is a long established company where tradition and high tech are a perfect combination.

As a medium-sized company, Antennentechnik Bad Blankenburg GmbH has modern computer-aided production facilities and the necessary measurement and test equipment. Besides the use of modern ERP solutions for production planning and optimization, highly qualified staff guarantees that all products are supplied on time and are of the highest quality.

Offering a comprehensive range of antennas as well as reacting quickly and flexibly to customers' requirements means that Bad Blankenburg can supply innovative products to trade and industry whenever required.

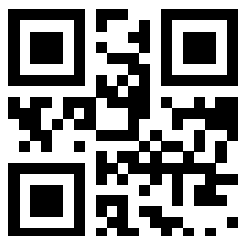
ATBB use innovative state-of-art techniques in antenna design, design software and modern day electronics to bring extremely high quality, high performance products to the market.

Whether you are involved in the automotive or aftermarket sector, are specifying original fit components at OEM level or require suitable conversion, we have a wide range of products to suit your needs.



Mobile reception of entertainment, sound and vision as well as media-supported information is taken for granted today. We are specialized to satisfy the high user requirements in this field by state-of-the-art receiving systems.

Interactive communication between users and transmitting and receiving units, as well as a stable and ongoing high-volume usage, set high demands for Antennentechnik in terms of research and development. We face these challenges.



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Flex-Roof Mount Antenna **3940.01** AM/ FM, DAB, DAB+ passiv

- Low height by using a short rod
- Whip angle adjustable from 10°...115°
- Easy to install
- Usable with 4721.01 (amplifier+diplexer AM, FM / DAB +), 4723.01 (amplifier), 4724.XX (Diplexer, passive) and 4726.XX (Amplifier + diplexer AM, FM / DAB +)

Frequency Range	AM	FM	B III
Frequency	0,15-16 MHz	87,5-108 MHz	174-240 MHz
Gain	-	-2 dBi *	0 dBi *
Impedance	≤ 10 pF	50 Ω	50 Ω
VSWR	-	≤ 2,0 : 1 *	≤ 2,0 : 1 *
Cable RG 174		600 mm	
Connector		FAKRA (f)-Z	

* Center of the band



Flex-Roof Mount Antenna **2116.01** AM/ FM/ DAB, DAB+ passiv

- Low height by using of a short rod
- Only ~15 mm installation depth
- Easy to install
- Usable with 4723.01 (amplifier) and 4724.01 (Radio splitter for the division FM/ DAB+ frequencies or 4721.01 (amplifier AM/ FM /DAB, DAB+)

Frequency Range	AM	FM	B III	L-Band
Frequency	0,15-16 MHz	87,5-108 MHz	174-240 MHz	1452-1492 MHz
Gain	-	-2 dBi *	0 dBi *	2 dBi
Amplification	0 dB	0 dB	0 dB	0 dB
Impedance	≤ 10 pF	50 Ω	50 Ω	50 Ω
VSWR	-	≤ 2,0 : 1 *	≤ 2,0 : 1 *	≤ 2,0 : 1 *
Cable RG 174		400 mm		
Connector		FAKRA (f)-Z		

* Center of the band



Combi Flex Roof Mount Antenna **2117.01** Radio AM/FM active

- Active AM/FM reception
- 12 V power supply through radio coaxial cable or separate DIN connector option
- Low noise rod
- Only 15 mm installation depth
- Easy fit
- Spare rod: 4626.11

Frequency Range	AM	FM
Frequency	0,15-16 MHz	87,5-108 MHz
Gain	6 dB	14 dB
Impedance	50 Ω	50 Ω
VSWR	≤ 2,5 :1	≤ 2,5 :1
Noise Figure	3,5 dB typ	3,5 dB typ
Power Supply External/Phantom	+ 12 V, 25 mA typ.	+ 12 V, 25 mA typ.
Cable RG 58		110 mm
Connector		M 10 x 0,75 (m)

* Amplification



Roof Mount Antenna, active **3775.01** AM/FM, DAB/ DAB+ (Band III)

- Active and low noise DAB receiving Band III
- Active and low noise AM/FM receiving
- 12 V optionally via inner conductor of the cable connections (phantom) or DIN receptacle
- Can be mounted on new MB+VW/ Audi (Seal adapter available)
- Small installation depth (16,5 mm)

Frequency Range	AM	FM	DAB+ Band III
Frequency	0,15-16 MHz	87,5-108 MHz	174-240 MHz
Impedance	50 Ω	50 Ω	50 Ω
Amplification	6 dB	20 dB	20 dB
Noise Factor	-	3,5 dB typ.	2,0 dB typ.
VSWR	≤ 2,5 : 1	≤ 2,5 : 1	≤ 2,0 : 1
Power Supply external	+ 12 V, 25 mA	+ 12 V, 25 mA	+ 12 V, 25 mA
Power Supply Phantom	+ 12 V, 20 mA	+ 12 V, 20 mA	+ 12 V, 5 mA
Cable RG 174	145 mm	180 mm	180 mm
Connector	FAKRA (m)-B		FAKRA(m)-G



Roof Mount Antenna, active **3785.01** AM/FM, DAB/ DAB+ (Band III), GPS

- Active and low noise DAB receiving Band III
- Active and low noise AM/FM receiving
- 12 V optionally via inner conductor of the cable connections (phantom) or DIN receptacle
- Active GPS antenna (Phantom power supply)
- Can be mounted on new MB+VW/ Audi (Seal adapter available)
- Small installation depth (16,5 mm)

Frequency Range	AM	FM	DAB+ Band III	GPS
Frequency	0,15-16 MHz	87,5-108 MHz	174-240 MHz	1575,42 MHz
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
Amplification	6 dB	20 dB	20 dB	28 ± 3 dB
Noise Factor	-	3,5 dB typ.	2,0 dB typ.	1,7 dB typ.
VSWR	≤ 2,5 : 1	≤ 2,5 : 1	≤ 2,0 : 1	≤ 1,5 : 1
Gain	-	-	-	32 dBic typ.
Power Supply external	+ 12 V, 25 mA	+ 12 V, 25 mA	+ 12 V, 25 mA	-
Power Supply Phantom	+ 12 V, 20 mA	+ 12 V, typ. 5 mA	+ 12 V, typ. 5 mA	+3,3...5,0 V 15...40 mA
Cable RG 174	110 mm		200 mm	150 mm
Connector	FAKRA (m)-B		FAKRA (m)-G	FAKRA(m)-C



Combi Roof Mount Antenna **3784.01** GSM 900/1800, UMTS, GPS

- Mounting at new hole images of MB+VW/ Audi possible (Seal adapter optional)
- Cellular 2G/3G
- Active GPS antenna (Phantom Power supply)
- Small installation depth (16,5 mm)

Frequency Range	GSM900/1800	UMTS	GPS
Frequency	880-960 MHz/ 1710-1880MHz	1900-2200 MHz	1575,42 MHz
Impedance	50 Ω	50 Ω	50 Ω
Gain	2 dBi	2 dBi	32 dBic typ.
max. Power	4 W	4 W	-
VSWR	typ. ≤ 2 : 1, max. ≤ 3 : 1	typ. ≤ 2 : 1, max. ≤ 3 : 1	≤ 1,5 : 1
Amplification LNA	-	-	28 ± 3 dB
Noise Figure	-	-	1,7 dB typ.
Power Supply	-	-	+3,3...5,0 V 15...40 mA
Cable RG 174	180 mm		150 mm
Connector	FAKRA (m)-D		FAKRA (m)-C



Glass Mount Indoor Antenna **4486.01** Digital-Radio DAB* (B III/L-Band)

- Quick installation
- Favourable reception properties
- Theft-proof and secure from destruction
- No wind noise
- Long product life
- Suitable for use with the digital car radio aftersales market
- The antenna should be mounted in a location that allows at least 5 mm between antenna and vehicle body

Frequency Range	B III	L-Band
Frequency	174-240 MHz	1452-1492 MHz
Output Impedance	50 Ω	50 Ω
VSWR	≤ 2,0 : 1	≤ 2,0 : 1
Amplification	9 dB	11 dB
Operation Voltage	+ 12 V	+ 12 V
Current Consumption	23 mA	23 mA
Cable RG 174	≈ 3, 0 m	
Connector	SMB (f), Angle	

* Digital Audio Broadcast



Glass Mount Antenna **4573.01** DAB, DAB+ (B III / L-Band)

- Fast and easy mounting
- Favourable transmission properties from outer rod
- Easy, covered cable installation
- Angle adjustment of rod > 180°
- Hinge locked by hexagonal screw
- For best performance avoid locating the antenna in areas which have heating wires or tinted areas.

Frequency Range	B III	L-Band
Frequency	174-240 MHz	1452-1492 MHz
Gain	17 dBi	2 dBi
Polarisation	vertical	vertical
Impedance	50 Ω	50 Ω
VSWR	≤ 2,0 : 1	≤ 1,5 : 1
Amplification LNA	15 dB typ.	Passive, 0 dB
Noise Figure	1,5 dB typ.	-
Power Supply	7...12 V / 20 mA	-
Cable RG 174	3,0 m	
Connector	SMB (f)	

* Digital Audio Broadcast



Magnetic Mount Antenna **4403.80** DAB, DAB+ (B III/ L-Band)

- Optimal transmitting and receiving from a car roof location
- Placing of radiator system in plastic housing protects it from dirt and corrosion
- Active GPS antenna (Phantom Power supply)
- Small installation depth (16.5 mm)

Frequency Range	B III	L-Band
Frequency	174-240 MHz	1452-1492 MHz
Impedance	50 Ω	50 Ω
Gain	2 dBi	2 dBi
Return loss	14 dB	14 dB
VSWR	≤ 1,5 : 1	≤ 1,5 : 1
Cable RG 174	≈ 3,0 m	
Connector	SMB (f), Angle	

* Digital Audio Broadcast



Combi Flex Roof Mount Antenna **2118.01** AM/FM, DAB/DAB+

- Active and low noise DAB* receiving (band III), L-band passive
- Active and low noise AM/FM receiving
- Active GPS Antenna (Phantom Power Supply)
- V power supply of the amplifiers optionally via inner conductor of the cable connections or DIN receptacle
- Low wind noise antenna rod
- Small installation depth (15 mm)

Frequency Range	AM	FM	B III	L-Band
Frequency	0,15-16 MHz	87,5-108 MHz	174-240 MHz	1452-1492 MHz
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	≤ 3,0 : 1	≤ 2,0 : 1	≤ 2,0 : 1	≤ 1,8 : 1
Amplification	6 dB	14 dB	10 dB	0 dB
Noise Figure	-	3,5 dB typ.	2,0 dB typ.	-
Power Supply external	+ 12 V, 25 mA	+ 12 V, 25 mA	+ 12 V, 25 mA	-
Power Supply	+ 12 V, 25 mA	+ 12 V, 25 mA	+ 12 V, 25 mA	-
Cable RG 174	145 mm		180 mm	
Connector	FAKRA (m)-B		FAKRA (m)-G	

* Digital Audio Broadcast



Combi - Antenna **4736.01** FM, DAB/ DAB+ (Band III), GSM 850/900/1800, UMTS, LTE 700/800/1800/2100/2600, WLAN/Wi-Fi, GPS/GLONASS

- DAB/DAB+ radio (low noise amplifier Band III)
- Active and low noise FM radio
- 2 connectors for mobile 2G / 3G / 4G (MIMO)
- 2 connectors for WLAN/Wi-Fi (MIMO)
- Active GPS/GLONASS Antenna (Phantom Power Supply)
- Dimension 200x95x70 (LxWxH)

Frequency Range	FM	DAB+ Band III	LTE 700/800 GSM 850/900	LTE 1800/2100 GSM 1800, UMTS	LTE 2600	WLAN/ Wi-Fi	GPS/GLONASS
Frequency	87,5-108	174-240	698 – 960	1710 – 2170	2500 – 2690	2400 – 2485 4900 – 5900	87,5-108
Amplification	15 dB	15 dB	-	-	-	-	28 ±3 dB
Gain	-	-	2 dBi	2 dBi	2 dBi	2 dBi	32 dBic typ.
Polarization	vertical	vertical	vertical	vertical	vertical	vertical	RHCP
Impedance	50 Ω	50 Ω	50 Ω	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	≤ 2,0 : 1	≤ 2,0 : 1	≤ 3,0 : 1	≤ 2,5 : 1	≤ 2,5 : 1	≤ 2,5 : 1	≤ 1,5 : 1
max. Power	-	-	4 W	4 W	4 W	4 W	-
Isolation	≥ 20 dB Radio/Mobile	≥ 20 dB Radio/Mobile	≥ 20 dB Radio/Mobile	≥ 20 dB Radio/Mobile	≥ 20 dB Radio/Mobile	-	≥ 35 dB
Noise Figure	3,5 dB	2,0 dB	3,5 dB	3,5 dB	3,5 dB	-	3,5 dB
Power Supply	+ 12 V * 25 mA, typ.	+ 12 V * 25 mA, typ.	-	-	-	-	+ 3,3...5,0 V 15...35 mA
Cable RG 174	260 mm	230 mm	-	2x 300 mm	-	2x 170 mm	200 mm
Connector	FAKRA(m)-B	FAKRA(m)-A	-	2xFAKRA(m)-D	-	2xFAKRA(m)-H	FAKRA(m)-C

* At phantom power AM / FM or DAB connection, optionally use!



Combi Flex Roof Mount Antenna **2121.01** AM/FM, DAB/ DAB+, GSM 900/1800, UMTS

- Active and low noise AM/FM receiving
- Cellular 2G/3G
- Easy fit – only one hole for 3 functions
- Small installation depth (15 mm)
- Active and low noise DAB receiving B III, L-Band passive
- Low wind noise antenna rod
- Compatible with conventional flex antennas

Frequency Range	AM / FM	DAB+ BIII/L-Band	GSM 900/1800	UMTS
Frequency	0,15-16 MHz/ 87,5-108 MHz	174-240 MHz/ 1452-1492 MHz	890-960 MHz/ 1710-1880 MHz	1900-2170 MHz
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
Gain	-	10 dBi/2 dBi	2 dBi	2 dBi
VSWR	≤ 2,5 : 1	≤ 2,0 : 1	≤ 2,0 : 1	≤ 3,0 : 1
max. Power	-	-	-	4 W
Amplification	6 dB/14 dB	10 dB/0 dB	-	-
Noise Figure	3,5 dB typ.	2,0 dB typ.	-	-
Power Supply	+ 12 V, 25 mA	+ 12 V, 25 mA	-	-
Cable RG 174	145 mm	180 mm	-	180 mm
Connector	FAKRA (m)-B	FAKRA (m)-G	-	FAKRA (m)-D

* Used for cellular networks and also analogue and digital broadcast



Combi Flex Roof Mount Antenna **3761.01** AM/FM, DAB/ DAB+, GPS

- Active and low noise DAB* receiving (B III, L-Band)
- Active and low noise AM/FM receiving
- 12 V of the amplifiers optionally via inner conductor of the cable connections or DIN receptacle
- Active GPS antenna (Phantom Power Supply)
- Small installation depth (15 mm)
- Easy fit – only one hole for 3 functions
- Compatible with conventional flex antennas

Frequency Range	AM	FM	B III	L-Band	GPS
Frequency	0,15-16 MHz	87,5-108 MHz	174-240 MHz	1452-1492 MHz	1575,42 MHz
Impedance	50 Ω	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	≤ 3,0 : 1	≤ 2,0 : 1	≤ 2,0 : 1	≤ 1,8 : 1	≤ 1,5 : 1
Amplification	6 dB	14 dB	10 dB	0 dB	28 dB±3 dB
Noise Figure	-	3,5 dB typ.	2,0 dB typ	-	1,7 dB typ.
Power Supply	+ 12 V, 25 mA	+ 12 V, 25 mA	+ 12 V, 25 mA	-	+ 3,0...5,5 V 15...40 mA
Cable RG 174	110 mm		200 mm		150 mm
Connector	FAKRA(m)-B		FAKRA(m)-G		FAKRA(m)-C

* Digital Audio Broadcast



Combi Flex Roof Mount Antenna **3766.01** AM/FM, DAB/ DAB+, GSM 900/1800, UMTS, GPS

- Active and low noise DAB receiving B III
- Active and low noise AM/FM receiving
- Cellular 2G/3G
- Active GPS antenna (Phantom Power Supply)
- 12 V power supply of the amplifiers optionally via inner conductor of the cable connections or DIN receptacle
- Small installation depth (15 mm)
- Easy fit – only one hole for 3 functions
- Compatible with conventional flex antennas

Frequency Range	AM	DAB+ B III	GSM 900/1800	UMTS	GPS
Frequency	0,15-16 MHz/ 87,5-108 MHz	174-240 MHz	890-960 MHz/ 1710-1880 MHz	1900-2170 MHz	1575,42 MHz
Impedance	50 Ω	50 Ω	50 Ω	50 Ω	50 Ω
Gain	-	~ 10 dBi	~ 2 dBi	~ 2 dBi	32dBic typ.
VSWR	≤ 2,5 : 1	≤ 2,0 : 1	≤ 2,0 : 1	≤ 3,0 : 1	≤ 1,5 : 1
max. Power	-	-	4 W	4 W	-
Amplification	6 dB/14 dB	10 dB	-	-	28 dB±3 dB
Noise Figure	3,5 dB typ.	2,0 dB typ.	-	-	1,7 dB typ.
Power Supply	+ 12 V, typ. 25 mA	+ 12 V, typ. 25 mA	-	-	+ 3,0...5,5 V 15...40 mA
Cable RG 174	110 mm	200 mm	148 mm		150 mm
Connector	FAKRA(m)-B	FAKRA(m)-G	FAKRA(m)-D		FAKRA(m)-C

* Digital Audio Broadcast



Combi Flex Roof Mount Antenna **3789.01** AM/FM, DAB/DAB+, DVB-T, GPS

- Active, low noise DAB/DAB+ and TV antenna (B III, B IV/V)
- Active, low noise AM/FM antenna
- 12V of the AM/FM amplifiers either through Phantom Power Supply or via pigtail cable with DIN connector
- 5-12V Phantom Power Supply DAB/DAB+ & TV amplifier
- Active GPS antenna (Phantom Power Supply)
- Low wind noise antenna rod
- Easy fit – one mounting hole for 3 functions

Frequency Range	AM	FM	B III	B IV/V	GPS
Frequency	0,15-16 MHz	87,5-108 MHz	174-240 MHz	474-602 / 610-786 MHz	1575,42 MHz
Impedance	50 Ω	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	≤ 3,0 : 1	≤ 2,0 : 1	≤ 2,0 : 1	≤ 1,8 : 1	≤ 1,5 : 1
Gain	5 dB	15 dB	15 dB	12 dB/10 dB	28 dB±3 dB
Noise Figure	3,5 dB	3,5 dB	2,0 dB	2,0 dB	1,7 dB
Power Supply	+ 12 V, 35 mA typ.	+ 12 V, 35 mA typ.	+ 5,0... 12,0 V 25 mA typ.	+ 5,0... 12,0 V 25 mA typ.	+ 3,0...5,5 V 15...40 mA
Cable RG 174	140 mm		175 mm		130 mm
Connector	FAKRA(m)-B		FAKRA(m)-H		FAKRA(m)-C

* incl. mounting kit; accessories - splitter 4738.01 for DAB/DAB+ and TV



Radio-Amplifier **4721.01** AM/FM, DAB/DAB+

FM-amplifier is designed for use inside the car or house and has the following features:

- Improves reception with passive antenna
- Qualified for DRM because of extended bandwidth
- Splitter for AM/FM band and DAB-band
- Quick and easy mounting

Frequency Range	AM	FM	DAB, DAB+
Frequency	0,15 – 30 MHz	76-108 MHz	174-240 MHz
Gain	10 dB	13 dB	15 dB
Impedance	50Ω	50Ω	50Ω
VSWR	≤ 1,5:1	≤ 1,5:1	≤ 1,5:1
Noise Figure	-	≤ 3,5 dB	≤ 2,0 dB
External Power Supply	+12 V, 70 mA	+12 V, 70 mA	+12 V, 70 mA
Phantom Power Supply	+12 V, 50 mA	+12 V, 50 mA	+12 V, 50 mA
Connector	FAKRA (m)-Z	FAKRA (m)-Z	FAKRA (m)-Z



Radio-Amplifier **4723.01** FM, DAB/DAB+

FM/ DAB-amplifier is designed for use inside the car or house and has the following features:

- Improves reception with passive antenna
- Quick and easy mounting

Frequency Range	FM	DAB, DAB+
Frequency	76-108 MHz	174-240 MHz
Gain	13 dB	15 dB
Impedance	50Ω	50Ω
VSWR	≤ 1,5:1	≤ 1,5:1
Noise Figure	≤ 3,5 dB	≤ 2,0 dB
External Power Supply	+12 V, 70 mA	+12 V, 70 mA
Phantom Power Supply	+12 V, 70 mA	+12 V, 70 mA
Connector	FAKRA (m)-Z	FAKRA (m)-Z



Radio Splitter, passive **4724.01** AM/FM, DAB,DAB+

Radio Splitter is designed for use inside the car or home application and has the following features:

- Splitter for the AM/FM Band and DAB, DAB+ Band
- Phantom power supply for a external antenna or radio amplifier
- Quick and easy installation

Frequency Range	AM	FM	DAB, DAB+	L-Band
Frequency	0,15 – 30 MHz	76-108 MHz	174-240 MHz	1452-1492 MHz
Impedance	50Ω	50Ω	50Ω	50Ω
Isolation (AM/FM - DAB, DAB+)	≥ 25 dB	≥ 25 dB	≥ 25 dB	≥ 25 dB
VSWR	≤ 1,5	≤ 1,5	≤ 1,5	≤ 1,5
max. Power transmission	≤ 3,5 dB	≤ 3,5 dB	≤ 2,0 dB	≤ 2,0 dB
Cable RG 174	+12 V, 100 mA	+12 V, 100 mA	+12 V, 100 mA	+12 V, 100 mA
Connector	0,3 m	0,3 m	0,3 m	0,3 m
Connector	ISO(m)- angle		SMB(f)-angle	



Radio Splitter active **4726.01** Radio, DAB, DAB+

Active Radio Splitter is designed for use inside the car or house and has the following features:

- Splitter for the radio and DAB, DAB+ Band

- Improving reception quality of the passive antenna
- The product is designed for vehicles with rod type roof/wing aerials
- Not to be used with integrated glass or amplified roof aerials

Frequency Range	Radio	DAB, DAB+	L-Band
Frequency	76-108 MHz	174-240 MHz	1452-1492 MHz
Impedance	50Ω	50Ω	50Ω
Amplification	20 dB	20 dB	10 dB
Noise figure	≤ 3,0 dB	≤ 2,0 dB	≤ 2,0 dB
Isolation (AM/FM – DAB, DAB+)	≥ 20 dB	≥ 20 dB	≥ 20 dB
VSWR	≤ 2,0	≤ 2,0	≤ 2,0
Power Supply	+8...+12 V, 20 mA	+8...+12 V, 20 mA	+8...+12 V, 20 mA
Cable RG 174	0,3 m	0,3 m	
Connector	DIN 41585 (m)	SMB(f)-angle	



Diplexer DAB/DAB+, DVB-T **4738.01** DAB/DAB+, DVB-T

The passive diplexer is designed for use with Combi Flex Roof Mount Antennas 3788.01 / 3789.01 with following features:

- Dividing the signals between DAB/DAB+ radio and DVB-T
- Phantom Power Supply from the DVB-T tuner is passed through splitter to the active antenna
- Quick and easy installation

Frequency Range	DAB/DAB+	DVB-T
Frequency	174-240 MHz	174 – 240 / 474 – 786 MHz
Impedance	50 Ω	50 Ω
VSWR	2 ≤ 1,5 : 1	≤ 1,5 : 1
Insertion Loss	≤ 5 dB	≤ 5 dB / ≤ 1,2 dB
Isolation DAB/DAB+ - DVB-T	≥ 20 dB	≥ 20 dB
Cable RG 174	0,1 m	0,1 m
Connector	FAKRA (m) G	FAKRA (m) E



2-way DVB-T splitter, active **4739.01** DVB-T

- Dividing DVB-T signals between two receivers
- Amplifies the signals to compensate distribution losses

- Phantom Power Supply from the DVB-T tuner is passed through to the active antenna
- Quick and easy installation

Frequency Range	TV 1	TV 2
Frequency	174 – 240 / 474 – 786 MHz	174 – 240 / 474 – 786 MHz
Impedance	50 Ω	50 Ω
VSWR	≤ 1,5 : 1	≤ 1,5 : 1
Gain	9 dB / 5 dB	9 dB / 5 dB
Noise Factor	≤ 2,0 dB	≤ 2,0 dB
Isolation TV 1 / TV 2	≥ 12 dB	≥ 12 dB
Power Supply	+5,0 V, 25 mA typ.	+5,0 V, 25 mA typ.
Cable RG 174	0,1 m	
Connector	FAKRA (m)-E	



Fixed Station Antenna **4929.01** DAB*, DAB+ (BIII/L-Band)

- Suitable for external and internal use
- Avoid metallic surfaces close to the antenna
- Radiator protected with plastic tube
- RF cable is connected directly to antenna element

Frequency Range	B III	L-Band
Frequency	174 – 240	1452-1492 MHz
Polarization	vertical	vertical
Gain	1 dBi	2 dBi
Impedance	50 Ω	50 Ω
Return loss	≈ 14 dB	≈ 14 dB
VSWR	≤ 1,5 : 1	≤ 1,5 : 1
UV Resistance	Exists (Housing flares are possible)	Exists (Housing flares are possible)
RF Cable RG 58		≈ 5,0 m
Connector		FME (f)

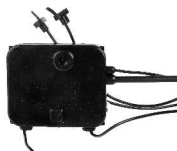
* Digital Audio Broadcast



Desk Antenna **3102.01** DAB, DAB+ (B III/L-Band)

- Suitable for internal use only
- Choosing the best location by testing the reception
- Avoid metallic surfaces near the antenna
- RF cable is not supplied with the antenna

Frequency Range	B III	L-Band
Frequency	174-240 MHz	1452-1492 MHz
Gain	0 dBi	2 dBi
VSWR	≤ 1,5 : 1	≤ 1,5 : 1
Return loss	≈ 14 dB	≈ 14 dB
Impedance	75 Ω	75 Ω
Connector	F (f)	F (f)



Broadcast antenna **5010.02** Radio AM/FM, DAB/DAB+ (B III)

- The antenna is designed for installation in inherently stable plastic assemblies
- Usable with 4724.01 (Radio splitter for the division AM/FM band and DAB+ frequencies)

Frequency Range	AM	FM	DAB, DAB+
Frequency	0,15-30 MHz	76-108 MHz	174-240 MHz
Amplification	10 dB	13 dB	13 dB
Impedance	50...75 Ω	50...75 Ω	50...75 Ω
VSWR	≤ 1,5 : 1	≤ 1,5 : 1	≤ 1,5 : 1
Noise Figure	-	≤ 3,5 dB	≤ 3,5 dB
External power supply	+12 V, 70 mA	+12 V, 70 mA	+12 V, 70 mA
Cable RG 58		~2,5 m	
Connector		FAKRA(f)-Z	



Glass Mount Indoor Antenna **4574.01** FM, DAB, DAB+ (Band III active/L-Band passive)

- Favourable reception properties
- Theft proof and secure from destruction
- Long product life and no wind noise
- Suitable to use with retrofitted digital receivers

Frequency Range	FM	B III	L-Band
Frequency	88-108 MHz	174-240 MHz	1452-1492 MHz
Impedance	50 Ω	50 Ω	50 Ω
Gain	15 dBi	17 dBi	2 dBi
VSWR	≤ 2,0 : 1	≤ 1,5 : 1	≤ 1,5 : 1
Return loss	10 dB	14 dB	14 dB
Amplification LNA	15 dB	15 dB	0 dB, passiv
Noise Figure	3,0 dB typ.	1,7 dB typ.	-
Power Supply	+ 12 V, 23 mA	+ 12 V, 23 mA	-
Cable RG 174		≈ 2,5 m	
Connector		FAKRA (f) - Z	



Glass Mount Indoor Antenna **new.xx** DAB / DAB+ (Band III)

- Favourable reception properties
- Theft proof and secure from destruction
- Long product life and no wind noise
- Suitable to use with retrofitted digital receivers
- Quick installation
- Length: 140mm
- Both vertical and horizontal mounting

Frequency Range	B III
Frequency	174-240 MHz
Gain	-
Polarisation	vertical / horizontal
Impedance	50 Ω
VSWR	≤ 2,0 : 1
Amplification LNA	15 dB typ.
Noise Figure	1,5 dB typ.
Power Supply	7...12 V / 20 mA typ.
Cable RG 174	3,0 m
Connector	SMB (f)

* Digital Audio Broadcast



Combi roof mount antenna **3742.01** GSM 900/1800, LTE 800/1800/2600, UMTS, GPS

- Cellular in 2G/3G/4G
- active GPS antenna (phantom power supply)
- small installation depth (15mm)
- reduced installation time - only one hole for 5 functions
- Used for: Cellular networks, Navigation systems, Telematic and Fleet Management

Radio Network	GSM 900/1800	UMTS	LTE 800/1800	LTE 2600	GPS
Frequency	824-960 MHz	1900- 2170 MHz	791-862 MHz / 1710-1880 MHz	2500-2690 MHz	1575,42 MHz
Gain	0 dBi	2 dBi	2 dBi	2 dBi	32 dBic typ.
Impedance	50 Ω	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	≤ 1,5 : 1	≤ 1,5 : 1	≤ 1,5 : 1	≤ 2,5 : 1	≤ 1,5 : 1
max. Power	4 W	4 W	4 W	4 W	-
Amplification LNA	-	-	-	-	28 ± 3 dB
Noise Figure	-	-	-	-	1,7 dB typ.
Power Supply	-	-	-	-	+3,3...5,0 V 15...35 mA
Cable RG 174			0,24 m		0,20 m
Connector			SMA(m)		FME(m)

Adapters



4370.01		FME(m) FME(m)
4370.02		FME(m) BNC(m)
4370.03		FME(m) BNC(m)
4370.04		FME(m) TNC(m)
4370.28		FME(m) Mini-UHF(m)
4370.06		FME(m) Mini-UHF(m)
4370.07		FME(m) N(m)
4370.20		FME(m) SMA(m)
4370.42		FME(m) PL(m)
4370.75		IEC(f) F(m)
4370.43		BNC(f) PL(m)
4370.57		ISO DIN 41585

Adapters



4370.24		TNC(m)RG 58 for crimping
4370.09		FME(m)RG 58 for crimping
4370.51		FME(m)RG 174 for crimping
4370.25		PL(m)RG 58 solderable
4370.48		FME(m) Special Low Loss for crimping
4370.52		FME(m) Low Loss for crimping
4370.13		BNC(m)RG 58 for crimping
4370.08		FME(f)RG 58 for crimping
4370.46		FME(f) Special Low Loss for crimping
4370.14		BNC(m)RG 58 solderable
4370.15		BNC(m)RG 174 for crimping
4370.44		FME(m) Low Loss for crimping

Other accessories



4716.01-01.01 Adapter Opel/Isignia/Zafira	
4715.01-01.01 Adapter Mercedes Benz - C-Klasse	
4612.39 Thread extension M14x0.75/M18x1-1.6mm	
3724.02-02.01 Adapter Audi A6/VW- Golf VII	
3724.01-02.01 Adapter Mercedes Benz - E-Klasse	
4065.02 Mother M14/M18 with claws	
4653.11 Replacement adhesive set for 4486.xx, 4488.xx, 4570.xx, 4430.xx, 4571.xx, 4934.xx	
4668.011 Replacement adhesive set for 4466.xx, 4468.xx	
4657.11 Mounting kit Base - Applicable to any Table Top Antennas	
4298.02.01 Adapter plate 4296.01; 4298.02 - Mercedes Benz - E-Klasse	



Antennentechnik provides compatible adaptor leads and extension cables for major end devices and radio manufacturers and models.



Cable Data

Type	RG 174	RG 58	Special Low Loss	Low Loss
Impedance	50Ω	50Ω	50Ω	50Ω
Attenuation	141,8 dB/100m @ 2GHz	141,8 dB/100m @ 2GHz	141,8 dB/100m @ 2GHz	141,8 dB/100m @ 2GHz
Outer Diameter	Ø 2,65 mm	Ø 4,95 mm	Ø 3,2 mm	Ø 5,5 mm
Outer Jacket	black flexible PVC	black flexible PVC	black flexible PVC	black flexible PVC
Length	various lengths available			
Termination Data	various connections available			

As the forefront of Antenna innovation and design, Antennentechnik Bad Blankenburg GmbH, the partner of choice for many automotive customers, is perfectly placed in a central European location to supply both European and Global customers in a timely fashion, both directly and through its partners.

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