

A large, black silhouette of a radio tower structure, featuring a lattice of beams and several antenna arrays mounted at different heights. The tower is positioned on the left side of the page, extending towards the center.

**RF SOLUTIONS  
IN TUNE WITH  
THE FUTURE**

## DAB+ Broadband Directional Antennas

MODEL	ABD01042XX	ABD020423X
<b>Input</b>	DIN 7/16 - EIA 7/8" - EIA 1+5/8"	DIN 7/16 - EIA 7/8" - EIA 1+5/8"
<b>Max. Power [kW]</b>	3.5	3.5
<b>Bandwidth [MHz]</b>	174÷230	174÷230
<b>Gain [dBd]</b>	2.2	5.0
<b>VSWR</b>	< 1.25	< 1.15
<b>Max Weight [kg]</b>	8*	24
<b>Dimension [WxDxHmm]</b>	670x535x160	160x565x2500

\*Available in stainless steel or aluminium version.

MODEL	ALP04047XX	ALP070471XX	ALP11047XX
<b>Input</b>	DIN 7/16 - EIA 7/8"	DIN 7/16 - EIA 7/8"	DIN 7/16 - EIA 7/8"
<b>Max. Power [kW]</b>	3	3	3
<b>Bandwidth [MHz]</b>	174÷240	174÷230	174÷230
<b>Gain [dBd]</b>	5.0	7.0	9.0
<b>VSWR</b>	< 1.13	< 1.12	< 1.12
<b>Max Weight [kg]</b>	8.5*	11*	19*
<b>Dimension [WxDxHmm]</b>	135x1046x1036	135x1620x842	135x2630x900

\*Available in stainless steel or aluminium version.

## DAB+ Broadband Panel Antennas

MODEL	AVP020443X	AVP0404432	AQP040442X
<b>Input</b>	DIN 7/16 - EIA 7/8"	2 x EIA 7/8"	2 x DIN 7/16 - 2 x EIA 7/8"
<b>Max. Power [kW]</b>	3	2 x 3	2 x 3
<b>Bandwidth [MHz]</b>	174÷230	174÷230	174÷230
<b>Gain [dBd]</b>	7.5	10.5	7.5
<b>VSWR</b>	< 1.12	< 1.13	< 1.12
<b>Weight [kg]</b>	35	75	43
<b>Dimension [WxDxHmm]</b>	1210x1110x416	1110x416x2240	1400x1400x800

## DAB+ Omnidirectional Coaxial Antennas

MODEL	ADC0104110	ADC0204110	ADC0404110
<b>Input</b>	DIN 7/16 female	DIN 7/16 female	DIN 7/16 female
<b>Max. Power [kW]</b>	0.6	1	1.5
<b>Working band [MHz]</b>	174÷240	174÷240	174÷240
<b>Bandwidth [Channels]</b>	2	2	2
<b>Gain [dBd]</b>	0.3	3.0	6.0
<b>VSWR</b>	< 1.2	< 1.2	< 1.2
<b>Weight [kg]</b>	25	31	43
<b>Dimension [WxDxHmm]</b>	120x1500	120x3400	120x6600

**Aldena**  
The Reliable Antennas



Please refer to Aldena full catalogue for Array Data

# DAB+ Filters



MODEL	BPF35050		BPF36078		BPF36098		BPF36140		BPF36200	
	Critical mask	NON Critical mask	Critical mask	NON Critical mask	Critical mask	NON Critical mask	Critical mask	NON Critical mask	Critical mask	NON Critical mask
<b>Cavity size [mm]</b>	50		78		98		140		200	
<b>Insertion Loss [dB@230MHz]</b>	≤ 1.60		≤ 0.90		≤ 0.85		≤ 0.80		≤ 0.60	
<b>Insertion Loss ±0.97 MHz [dB@230MHz]</b>	>5	>5	>15	>10	>15	>10	>16	>10	>16	>10
<b>VSWR</b>	1.14	1.14	1.13	1.10	1.13	1.10	1.13	1.10	1.13	1.10
<b>Max input power [W]</b>	100		300		800		1500		3000	
<b>STD Configuration</b>										
<b>Max input power [W] Heat Sinks</b>	N/A		350		1000		1800		3600	
<b>Max input power [W] Forced Air Cooling</b>	N/A		600		1600		2800		6000	
<b>Rack 19" Space</b>	2U		5U		6U		12U		16U	
<b>Available connectors</b>	N female - N male DIN 7/16 female - DIN 7/16 male		N female - N male DIN 7/16 female - DIN 7/16 male EIA 7/8" flanged or unflanged		DIN 7/16 female - DIN 7/16 male EIA 7/8" flanged or unflanged		DIN 7/16 female - DIN 7/16 male EIA 7/8" flanged or unflanged		EIA 7/8" flanged or unflanged EIA 1+5/8" flanged or unflanged	
<b>Max Operating Temperature [°C]</b>	65		65		65		65		65	

Liquid Cooling available on request.  
Customized Frame System available on request.



## DAB+ COMBINERS



Constant Impedance Balanced and Star-point Combiners available in different configurations.

# ALWAYS IN TUNE WITH THE FUTURE



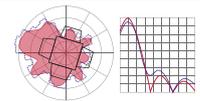
## PLANNING UNLEASHED

ALDENA redefines what a calculation software can do: powerful, versatile and revolutionary, EMLAB is an ALL-IN-ONE solution, a work platform for Telecommunication Operators and Broadcasters but also a reference tool for Telecommunication Authorities.

Thanks to a real-time data evaluation, EMLAB allows users to design complex antenna systems/arrays composed by an indefinite number of elementary antennas to evaluate either the final 3D irradiation solid, the environmental impact for health purposes, and radioelectric coverage on orographic basis.

## FAST AND SIMPLE DAB+ ANTENNA DESIGN

**ANTENNA PATTERN DESIGN**



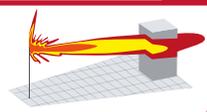
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**COVERAGE NETWORK PLANNING**



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**EM HEALTH SAFETY**





ISO 9001 • ISO 14001 • ISO 45001 Certified

With over 80-year heritage makes ALDENA one of the leading manufacturers of Antennas and RF accessories for Radio/TV Broadcasting and Mission-Critical communications.

Thanks to its know-how and a reliable and customer-oriented portfolio, ALDENA is involved in different DAB+ and Digital TV networks rollouts.

Our solutions includes: Antennas for digital/analogue services (DAB+, FM Radio, DVB-T2, ATSC 3.0, ISDB-T, TETRA, PMR, ATC), Coaxial RF components, Measuring equipments, Tower spines- mechanical structure.

ALDENA offers high-quality engineering services: Antenna measurements, Network planning, OnField commissioning, and Training.

Nowadays ALDENA products are installed in more than 145 countries and EMLAB software is used by Broadcasters, System integrators, Authorities, Universities.

A division for measuring and monitoring systems develops innovative and customized EMF Measurement equipments: Meters, Probes, and Antennas.



Delta is owned by Aldena • ISO 9001 Certified

DELTA MECCANICA is a leading company in the Mechanics for Radio Frequency (RF) sector, located in a 7200 sqm plant in Orvieto.

Established in 1982, we specialize in the production of high-precision and reliable passive components for RF applications in various industries: Radio/TV Broadcasting, Scientific and Industrial sectors.

Our mission is to provide innovative and high-quality solutions to our clients by combining state-of-the-art technology with more than 40 years of hands-on experience.

More than 120.000 products spread worldwide. We are dedicated to ensuring that our products meet the highest standards of quality and precision.

Customer-oriented with tailor made solutions in respect of the quality and the latest innovative technology.

## TELECOMUNICAZIONI ALDENA SRL

Via per Vighignolo 6/8  
20019 Settimo Milanese (MI)

ITALY

Tel. +39.02.90390461

Follow us

@aldena.it

@aldena.telecomunicazioni

Aldena Telecomunicazioni

aldena@aldena.it

[www.aldena.it](http://www.aldena.it)

