



**RF SOLUTIONS
IN TUNE WITH
THE FUTURE**

DAB+ Broadband Directional Antennas

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

*Available in stainless steel or aluminium version.

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

*Available in stainless steel or aluminium version.

DAB+ Broadband Panel Antennas

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

DAB+ Omnidirectional Coaxial Antennas

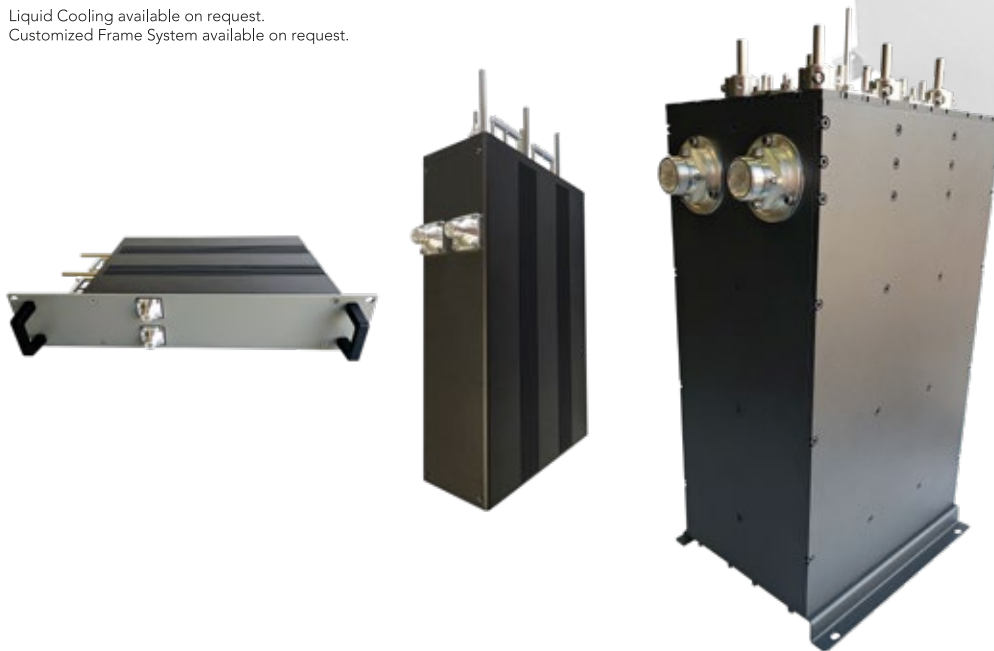
MODEL	ADC0104110	ADC0204110	ADC0404110
Input	DIN 7/16 female	DIN 7/16 female	DIN 7/16 female
Max. Power [kW]	0.6	1	1.5
Working band [MHz]	174÷240	174÷240	174÷240
Bandwidth [Channels]	2	2	2
Gain [dBd]	0.3	3.0	6.0
VSWR	< 1.2	< 1.2	< 1.2
Weight [kg]	25	31	43
Dimension [WxDxHmm]	120x1500	120x3400	120x6600

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
Cavity size [mm]	50		78		98		140		200	
Insertion Loss [dB@230MHz]	≤ 1.60		≤ 0.90		≤ 0.85		≤ 0.80		≤ 0.60	
Insertion Loss ±0.97 MHz [dB@230MHz]	>5	>5	>15	>10	>15	>10	>16	>10	>16	>10
VSWR	1.14	1.14	1.13	1.10	1.13	1.10	1.13	1.10	1.13	1.10
Max input power [W]	100		300		800		1500		3000	
STD Configuration										
Max input power [W] Heat Sinks	N/A		350		1000		1800		3600	
Max input power [W] Forced Air Cooling	N/A		600		1600		2800		6000	
Rack 19" Space	2U		5U		6U		12U		16U	
Available connectors	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	
Max Operating Temperature [°C]	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.

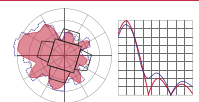
Thanks to a real-time data evaluation, EMLAB allows users to design complex antenna systems/arrays composed by an indefinite number of elementary antennas to evaluate either the final 3D irradiation solid, the environmental impact for health purposes, and radioelectric coverage on orographic basis.

FAST AND SIMPLE DAB+ ANTENNA DESIGN

EMLAB

SOFTWARE

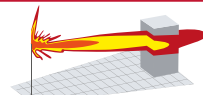
**ANTENNA
PATTERN
DESIGN**



**COVERAGE
NETWORK
PLANNING**



**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.

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