

TX station: 8xAkk2-bidir
Gain solid integration : disabled

Site Name: Labelitaly

General data of Antenna System

TX station	8xAkk2-bidir
Site Name	Labelitaly
System of coordinates	Geographic
Longitude	00°00'00.000"
Latitude	00°00'00.000"
Ground level a.s.l. (m)	100.0
Antenna system height (m)	50.0
Transmitter power(Watt)	1000.000
Carrier wave frequency (MHz)	98.000
Antenna system central frequency (MHz)	98.000
Antenna base diagrams type 1	LABEL ITALY-AKK_2V PANEL W.B. FM vertical pol.
Antenna base diagrams type 2	-
Polarization (H/V/C/X)	V
Transmitting cable attenuation (dB)	0.0
Additional attenuations(dB)	0.0
Base diagrams sectors (T = All, F = Front)	T
Velocity factor of cables to Antennas (0÷1)	0.88
Coordinate System(C = cartesian, P = polar)	P
Mast side / diameter(cm):	200.0
Mast cross section (T/Q/C)	Q
Structure rotation w.r.t. North (°)	0.0
Mast rotation w.r.t. North (°)	0.0

Information about antennas used in the System

	<i>Antenna type 1</i>
Manufacturer	LABEL ITALY
Antenna model	AKK_2V PANEL W.B. F
Band start(MHz)	88
Band stop(MHz)	105
diagrams Frequency(MHz)	98
Polariz (H,V,C,X)	V
Vertical dist (cm)	310
Height (cm)	174
Width (cm)	248
Thickness (cm)	80
Weight (Kg)	45
Maximum power (KW)	5
Gain (dBd)	8.1
North E.C. (cm)	0
East E.C. (cm)	0
Return loss (dB)	0
R.C.Phase (°)	0

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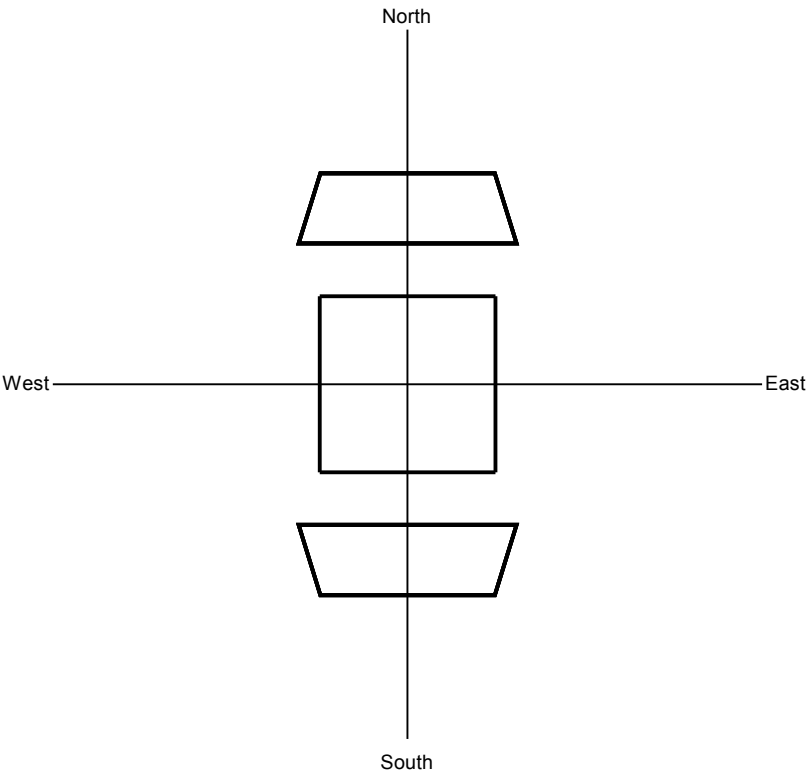
Geometr. and electrical data of Antenna System

	<i>Power</i> (%)	<i>Tilt</i> (°)	<i>Az.</i> (°/N)	<i>Phase</i> (°)		<i>V dist.</i> (m)	<i>Scr-d</i> (cm)	<i>Scr-Az</i> (°/N)	<i>Rot.</i> (1÷4)	<i>Type</i> (1÷2)	<i>L cables</i> (cm)	<i>Car. phase</i> (°)
1	12.500	0	0	0	+0.0	4.50	160.0	0.0	1	1	0.0	0.0
2	12.500	0	0	0	+0.0	1.50	160.0	0.0	1	1	0.0	0.0
3	12.500	0	0	0	+0.0	-1.50	160.0	0.0	1	1	0.0	0.0
4	12.500	0	0	0	+0.0	-4.50	160.0	0.0	1	1	0.0	0.0
5	12.500	0	180	0	+0.0	4.50	160.0	180.0	1	1	0.0	0.0
6	12.500	0	180	0	+0.0	1.50	160.0	180.0	1	1	0.0	0.0
7	12.500	0	180	0	+0.0	-1.50	160.0	180.0	1	1	0.0	0.0
8	12.500	0	180	0	+0.0	-4.50	160.0	180.0	1	1	0.0	0.0

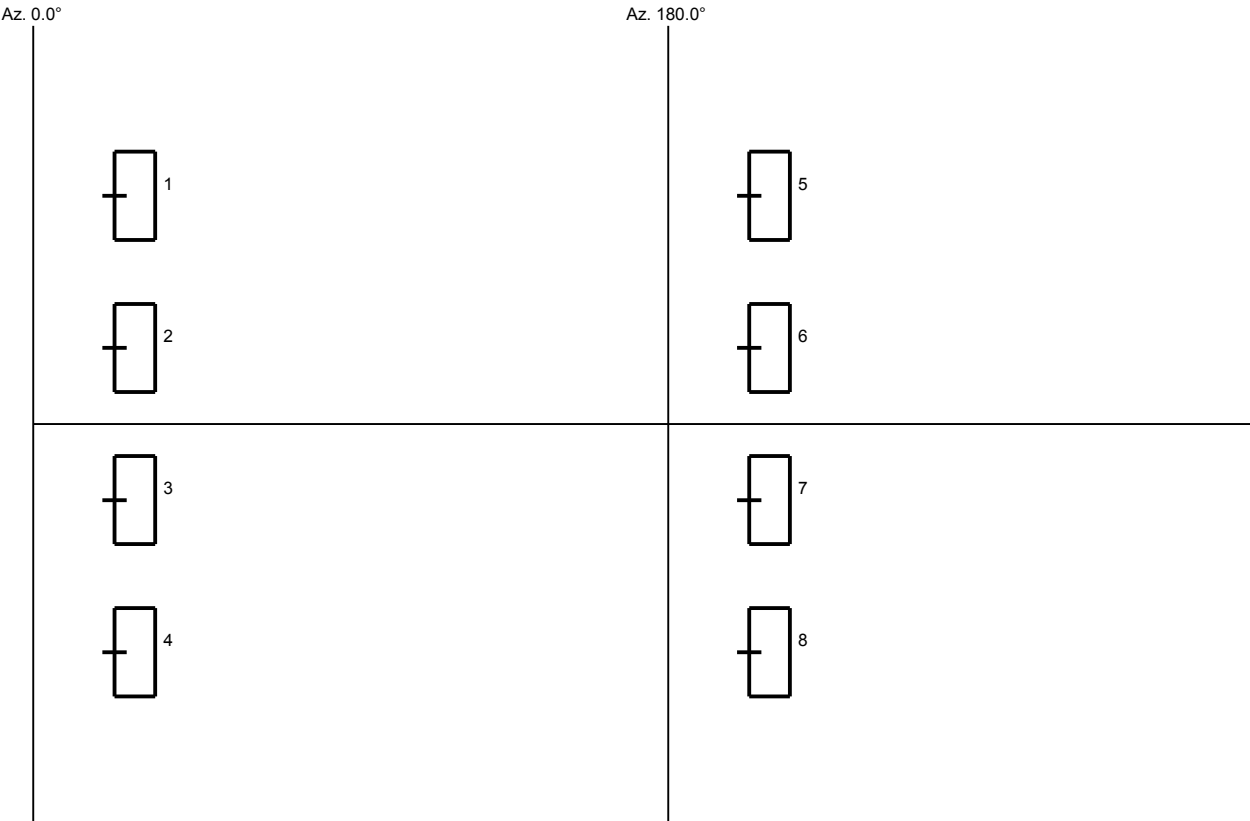
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Plan of antenna system



Side of antenna system



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Antennas arrays data

A. Antennas array azimuth (°/N)	0	180
B. Number of antennas	4	4
C. Nominal power supply (W)	500.00	500.00
D. Losses (addit. + cables) (dB)	0.0	0.0
E. Effective power supply (W)	500.00	500.00
F. Theor. maximum gain (dBd)	14.12	14.12
G. Distribution losses (dB)	0.00	0.00
H. Nominal max gain [F - G] (dBd)	14.12	14.12
I. Compensation losses (dB)	0.00	0.00
J. Effec. max gain [H - I] (dBd)	14.12	14.12
K. Effec. max gain (times)	25.83	25.83
L. Effec. max power [E * K] (KW)	12.9131	12.9131
M. Max power depr. angle (°)	0.0	0.0
N. Max power az. angle (°)	358	178

Diagram in dBK calculated at horizon

Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK
0	11.0	90	-2.9	180	11.0	270	-2.9
10	10.4	100	-5.1	190	10.4	280	-5.1
20	9.2	110	-8.9	200	9.2	290	-8.9
30	7.7	120	-3.9	210	7.7	300	-3.9
40	5.2	130	2.4	220	5.2	310	2.4
50	2.4	140	5.2	230	2.4	320	5.2
60	-3.9	150	7.7	240	-3.9	330	7.7
70	-8.9	160	9.2	250	-8.9	340	9.2
80	-5.1	170	10.4	260	-5.1	350	10.4

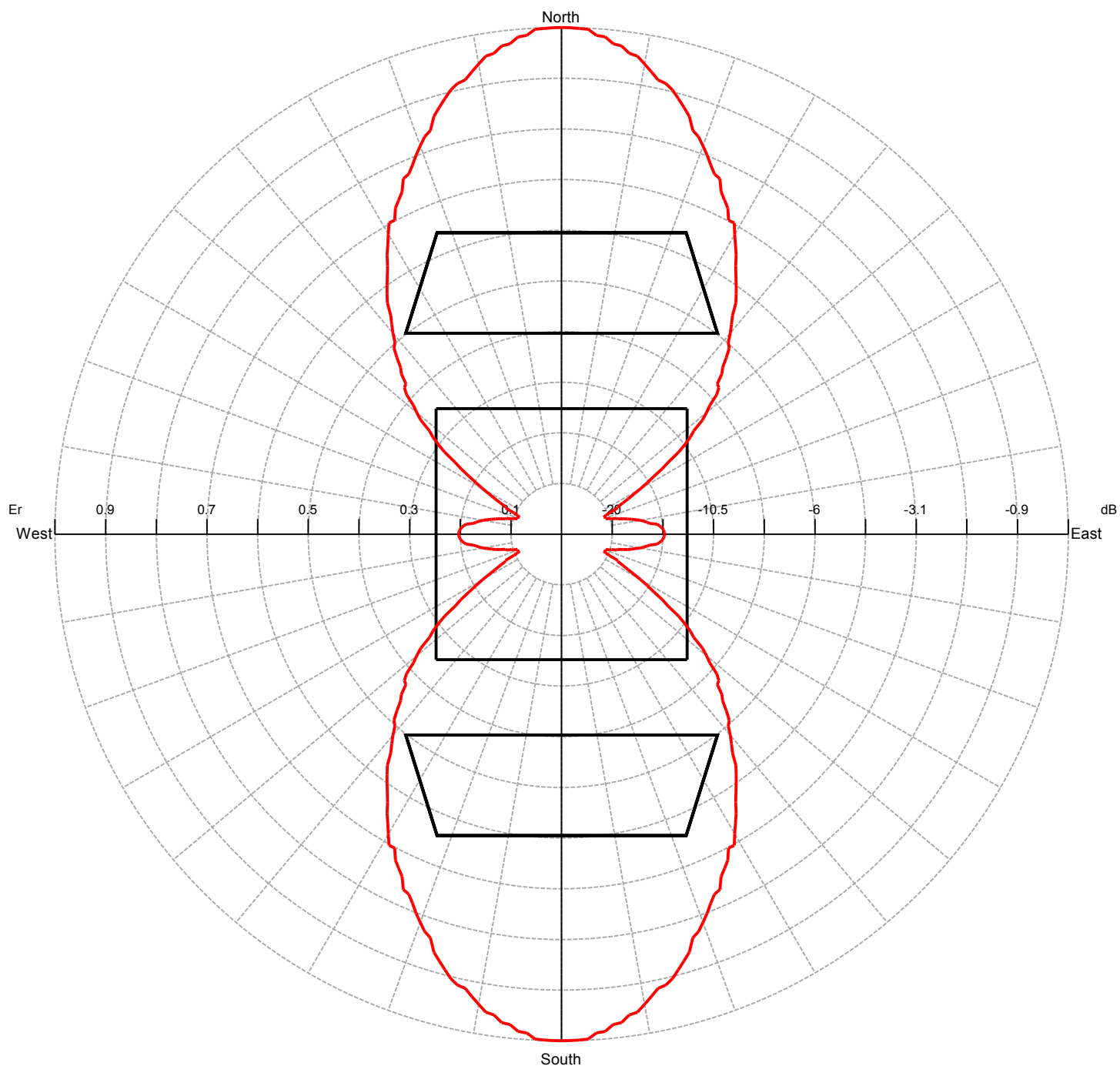
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Horizontal diagram at 0.0° depres. (Total Antenna)



0.0° depres. (Total Antenna), Gain (dBd): 10.96

ERP T.Max(KW): 12.4753 ERP E.Max(KW): 12.4753

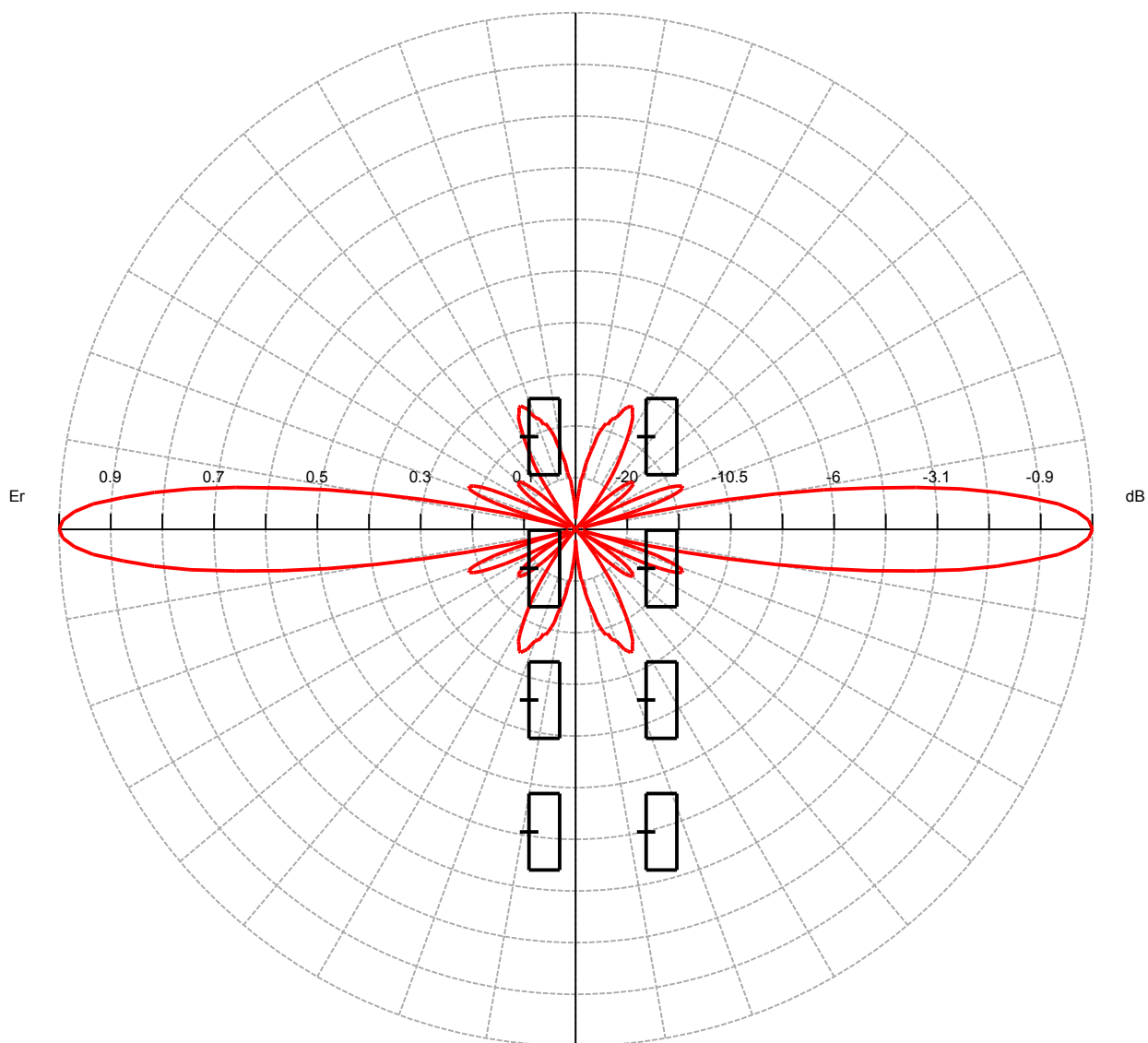
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Vertical diagram at an azimuth of 0.0° degrees



0.0° Az. (Total Antenna), Gain (dBd): 10.96

ERP T.Max(KW): 12.4753 ERP E.Max(KW): 12.4753