

TX station: 16xAkk2-omni
Gain solid integration : enabled

Site Name: Labelitaly

General data of Antenna System

TX station	16xAkk2-omni
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

TX station: 16xAkk2-omni

Frequency: 98.00 MHz

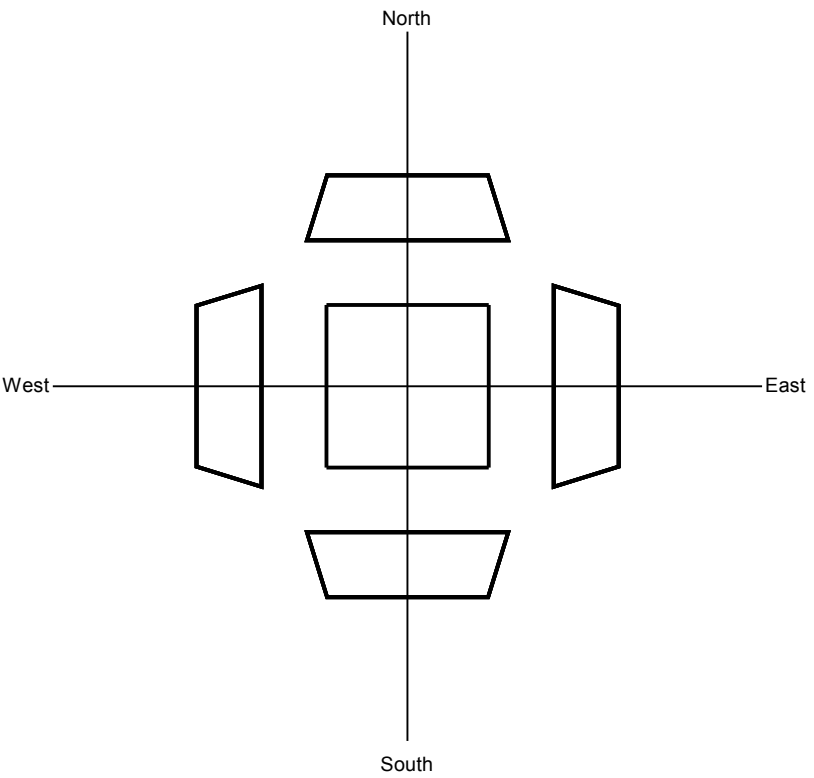
Gain solid integration : enabled

Site Name: Labelitaly

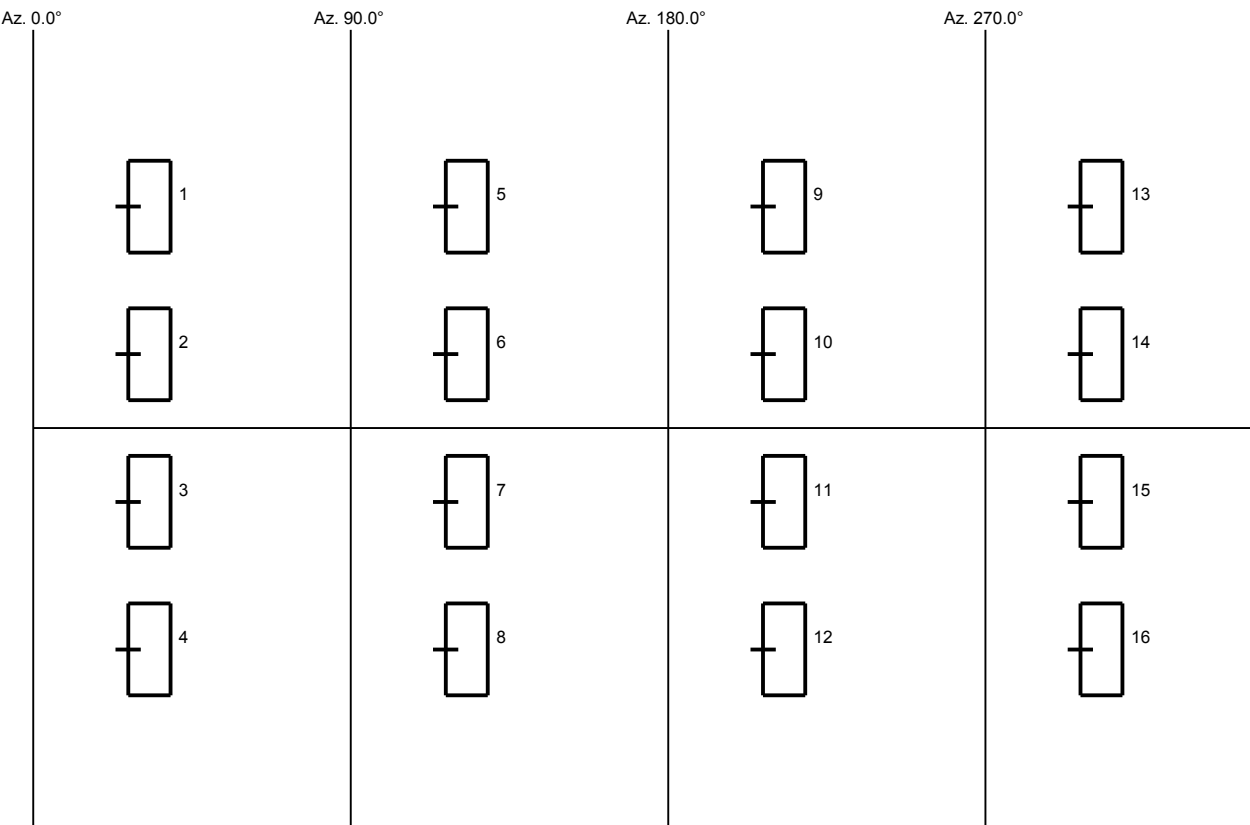
Geometr. and electrical data of Antenna System

	<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	6.250	0	0	0 +0.0	4.20	180.0	0.0	1	1	0.0	0.0
2	6.250	0	0	0 +0.0	1.40	180.0	0.0	1	1	0.0	0.0
3	6.250	0	0	0 +0.0	-1.40	180.0	0.0	1	1	0.0	0.0
4	6.250	0	0	0 +0.0	-4.20	180.0	0.0	1	1	0.0	0.0
5	6.250	0	90	0 +0.0	4.20	180.0	90.0	1	1	0.0	0.0
6	6.250	0	90	0 +0.0	1.40	180.0	90.0	1	1	0.0	0.0
7	6.250	0	90	0 +0.0	-1.40	180.0	90.0	1	1	0.0	0.0
8	6.250	0	90	0 +0.0	-4.20	180.0	90.0	1	1	0.0	0.0
9	6.250	0	180	0 +0.0	4.20	180.0	180.0	1	1	0.0	0.0
10	6.250	0	180	0 +0.0	1.40	180.0	180.0	1	1	0.0	0.0
11	6.250	0	180	0 +0.0	-1.40	180.0	180.0	1	1	0.0	0.0
12	6.250	0	180	0 +0.0	-4.20	180.0	180.0	1	1	0.0	0.0
13	6.250	0	270	0 +0.0	4.20	180.0	270.0	1	1	0.0	0.0
14	6.250	0	270	0 +0.0	1.40	180.0	270.0	1	1	0.0	0.0
15	6.250	0	270	0 +0.0	-1.40	180.0	270.0	1	1	0.0	0.0
16	6.250	0	270	0 +0.0	-4.20	180.0	270.0	1	1	0.0	0.0

Plan of antenna system



Side of antenna system



Antennas arrays data

A. Antennas array azimuth (°/N)	0	90	180	270
B. Number of antennas	4	4	4	4
C. Nominal power supply (W)	250.00	250.00	250.00	250.00
D. Losses (addit. + cables) (dB)	0.0	0.0	0.0	0.0
E. Effective power supply (W)	250.00	250.00	250.00	250.00
F. Theor. maximum gain (dBd)	14.19	14.19	14.19	14.19
G. Distribution losses (dB)	0.00	0.00	0.00	0.00
H. Nominal max gain [F - G] (dBd)	14.19	14.19	14.19	14.19
I. Compensation losses (dB)	0.00	0.00	0.00	0.00
J. Effec. max gain [H - I] (dBd)	14.19	14.19	14.19	14.19
K. Effec. max gain (times)	26.25	26.25	26.25	26.25
L. Effec. max power [E * K] (KW)	6.5636	6.5636	6.5636	6.5636
M. Max power depr. angle (°)	0.0	0.0	0.0	0.0
N. Max power az. angle (°)	358	88	178	268

Diagram in dBK calculated at horizon

Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK
0	6.9	90	6.9	180	6.9	270	6.9
10	6.9	100	6.9	190	6.9	280	6.9
20	6.2	110	6.2	200	6.2	290	6.2
30	6.0	120	6.0	210	6.0	300	6.0
40	6.8	130	6.8	220	6.8	310	6.8
50	6.8	140	6.8	230	6.8	320	6.8
60	6.0	150	6.0	240	6.0	330	6.0
70	6.2	160	6.2	250	6.2	340	6.2
80	6.9	170	6.9	260	6.9	350	6.9

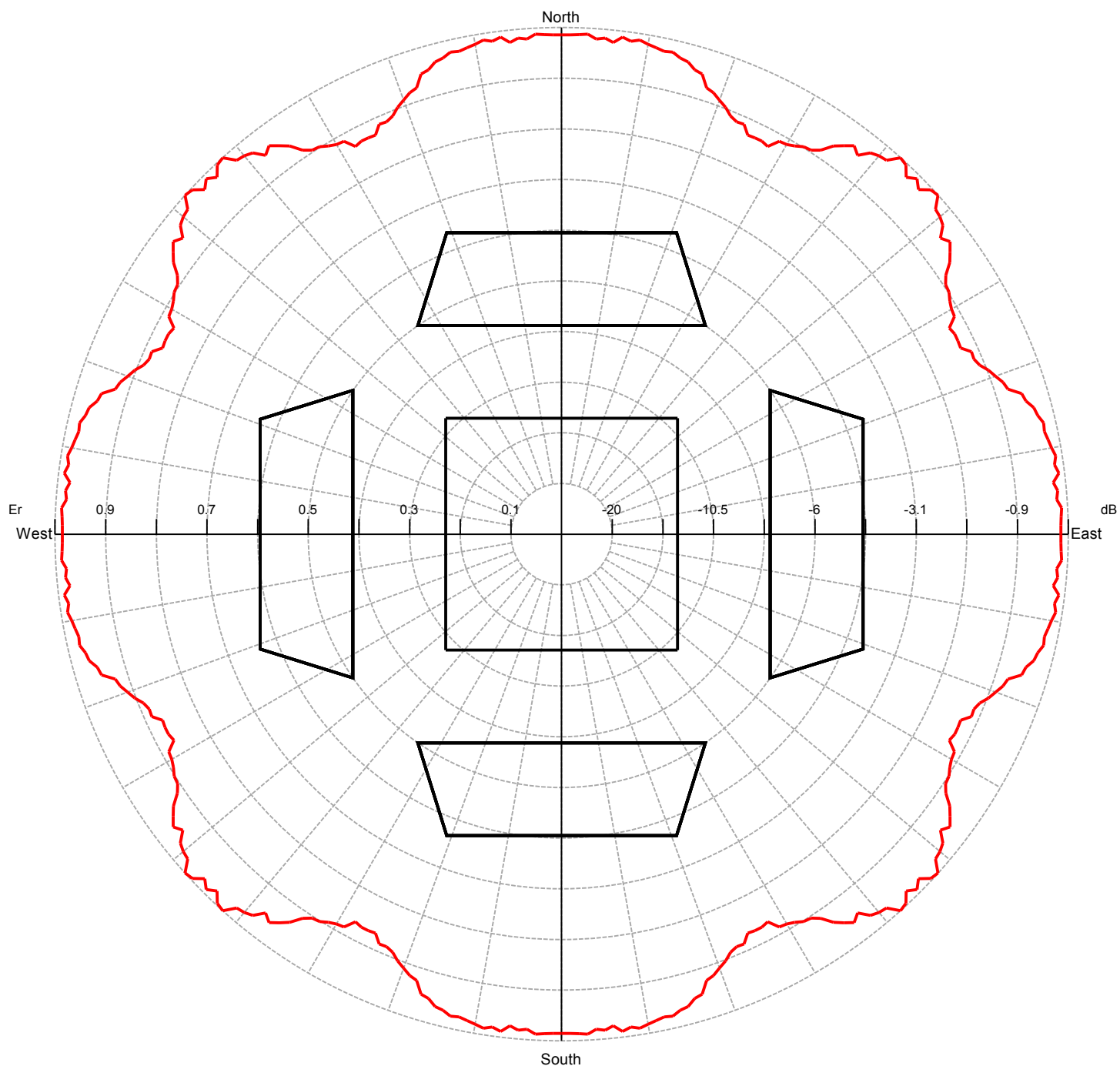
TX station: 16xAkk2-omni

Frequency: 98.00 MHz

Gain solid integration : enabled

Site Name: Labelitaly

Horizontal diagram at 0.0° depres. (Total Antenna)



0.0° depres. (Total Antenna), Gain (dBd): 7.04

ERP T.Max(KW): 5.0594 ERP E.Max(KW): 5.0594

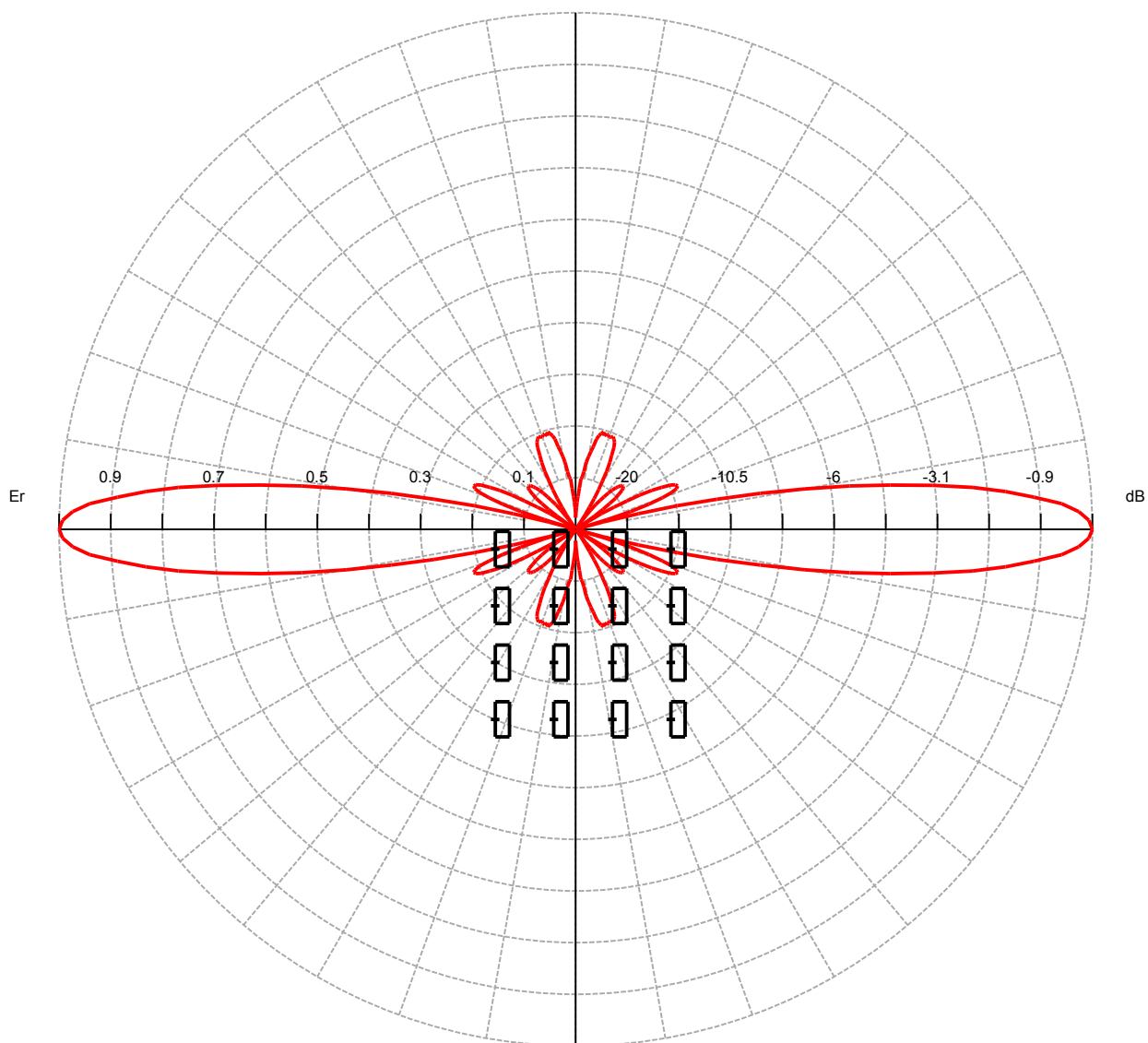
TX station: 16xAkk2-omni

Frequency: 98.00 MHz

Gain solid integration : enabled

Site Name: Labelitaly

Vertical diagram at an azimuth of 0.0° degrees



ERP T.Max(KW): 4.9129 ERP E.Max(KW): 4.9129