TX station: 8xUKK8
Gain solid integration : enabled

Site Name: Labelitaly

General data of Antenna System

TX station	8xUKK8
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)	100.0
Transmitter power(Watt)	1000.000
Carrier wave frequency (MHz)	600.000
Antenna system central frequency (MHz)	600.000
Antenna base diagrams type 1	LABEL ITALY-UKK_8 PANEL 4 DIP UHF
Antenna base diagrams type 2	-
Polarization (H/V/C/X)	H
Transmitting cable attenuation (dB)	0.5
Additional attenuations(dB)	0.5
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):	45.0
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

	Antenna type 1
Manufacturer	LABEL ITALY
Antenna model	UKK_8 PANEL 4 DIP
Band start(MHz)	470
Band stop(MHz)	850
diagrams Frequency(MHz)	610
Polariz (H,V,C,X)	H
Vertical dist (cm)	105
Height (cm)	100
Width (cm)	45
Thickness (cm)	24
Weight (Kg)	0
Maximum power (KW)	2
Gain (dBd)	11
North E.C. (cm)	6.5
East E.C. (cm)	0.8
Return loss (dB)	0
R.C.Phase (°)	0

TX station: 8xUKK8

Frequency: 600.00 MHz

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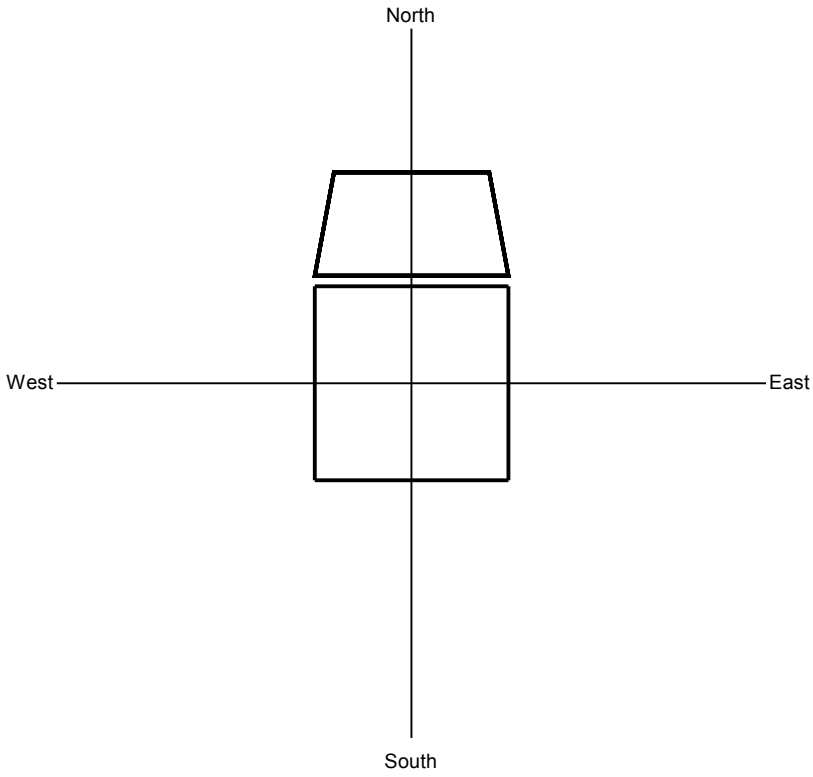
Geometr. and electrical data of Antenna System

	Power (%)	*Tilt (°)*	*Az. (°/N)*	*Phase (°)*	*V dist. (m)*	*Scr-d (cm)*	*Scr-Az (°/N)*	*Rot. (1÷4)*	*Type (1÷2)*	*L cables (cm)*	*Car. phase (°)*
1	12.500	0	0	0 +0.0	3.85	25.0	0.0	1	1	0.0	0.0
2	12.500	0	0	0 +0.0	2.75	25.0	0.0	1	1	0.0	0.0
3	12.500	0	0	0 +0.0	1.65	25.0	0.0	1	1	0.0	0.0
4	12.500	0	0	0 +0.0	0.55	25.0	0.0	1	1	0.0	0.0
5	12.500	0	0	0 +0.0	-0.55	25.0	0.0	1	1	0.0	0.0
6	12.500	0	0	0 +0.0	-1.65	25.0	0.0	1	1	0.0	0.0
7	12.500	0	0	0 +0.0	-2.75	25.0	0.0	1	1	0.0	0.0
8	12.500	0	0	0 +0.0	-3.85	25.0	0.0	1	1	0.0	0.0

TX station: 8xUKK8
Frequency: 600.00 MHz
Gain solid integration : enabled

Site Name: Labelitaly

Plan of antenna system



Side of antenna system

TX station: 8xUKK8
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Gain solid integration : enabled

Site Name: Labelitaly

Antennas arrays data

A. Antennas array azimuth (°/N)	0
B. Number of antennas	8
C. Nominal power supply (W)	1000.00
D. Losses (addit. + cables) (dB)	1.0
E. Effective power supply (W)	794.33
F. Theor. maximum gain (dBd)	19.97
G. Distribution losses (dB)	0.00
H. Nominal max gain [F - G] (dBd)	19.97
I. Compensation losses (dB)	0.00
J. Effec. max gain [H - I] (dBd)	19.97
K. Effec. max gain (times)	99.30
L. Effec. max power [E * K] (KW)	78.8764
M. Max power depr. angle (°)	0.0
N. Max power az. angle (°)	0

Diagram in dBK calculated at horizon

Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK
0	19.0	90	-1.0	180	-1.0	270	-1.0
10	18.6	100	-1.0	190	-1.0	280	-1.0
20	17.8	110	-1.0	200	-1.0	290	3.3
30	16.4	120	-1.0	210	-1.0	300	8.2
40	14.4	130	-1.0	220	-1.0	310	11.7
50	11.7	140	-1.0	230	-1.0	320	14.4
60	8.2	150	-1.0	240	-1.0	330	16.4
70	3.3	160	-1.0	250	-1.0	340	17.8
80	-1.0	170	-1.0	260	-1.0	350	18.6

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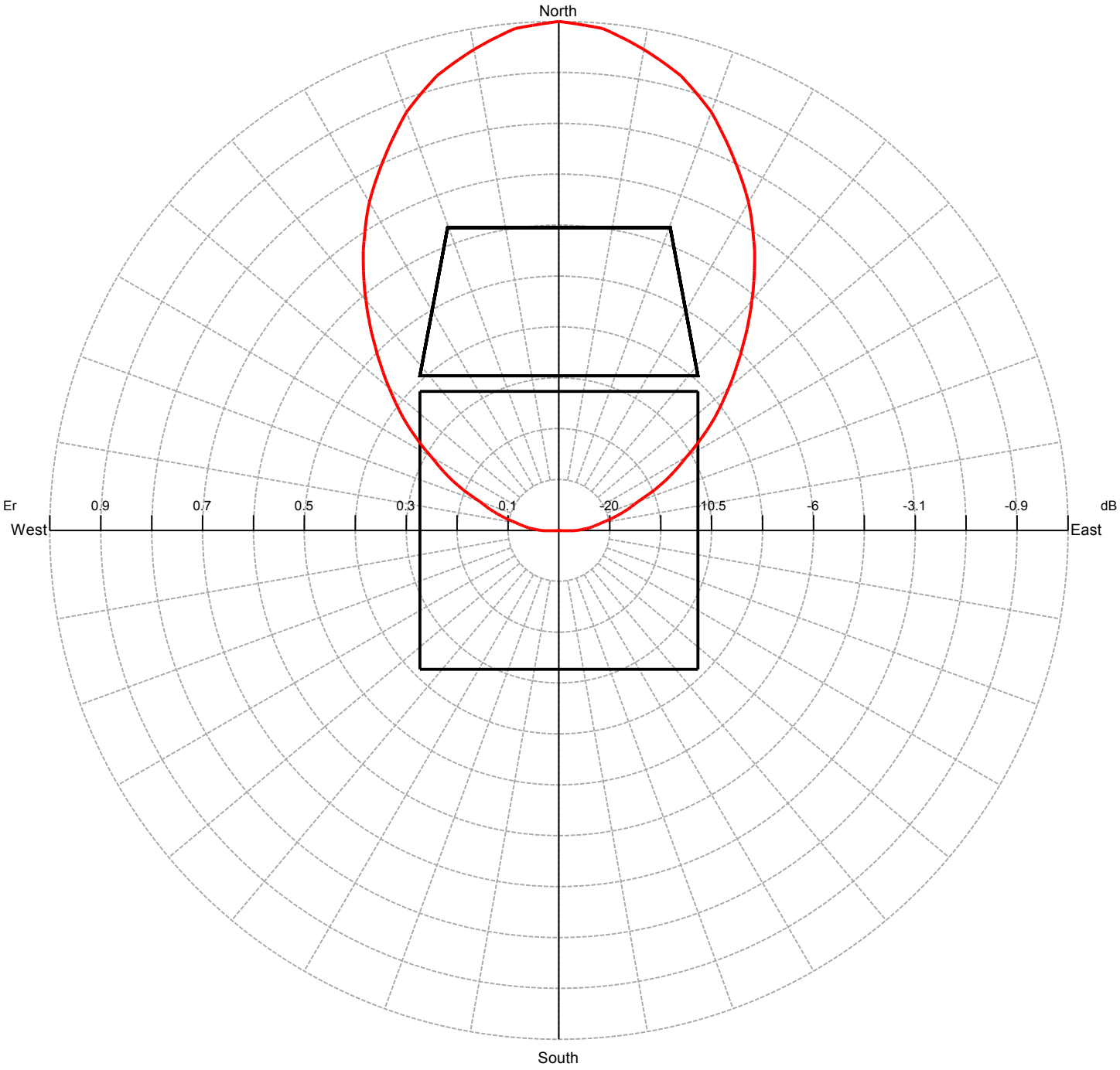
Horizontal diagram at 0.0° depres. (Total Antenna)



0.0° depres. (Total Antenna), Gain (dBd): 19.97

ERP T.Max(KW): 99.2994 ERP E.Max(KW): 78.8763

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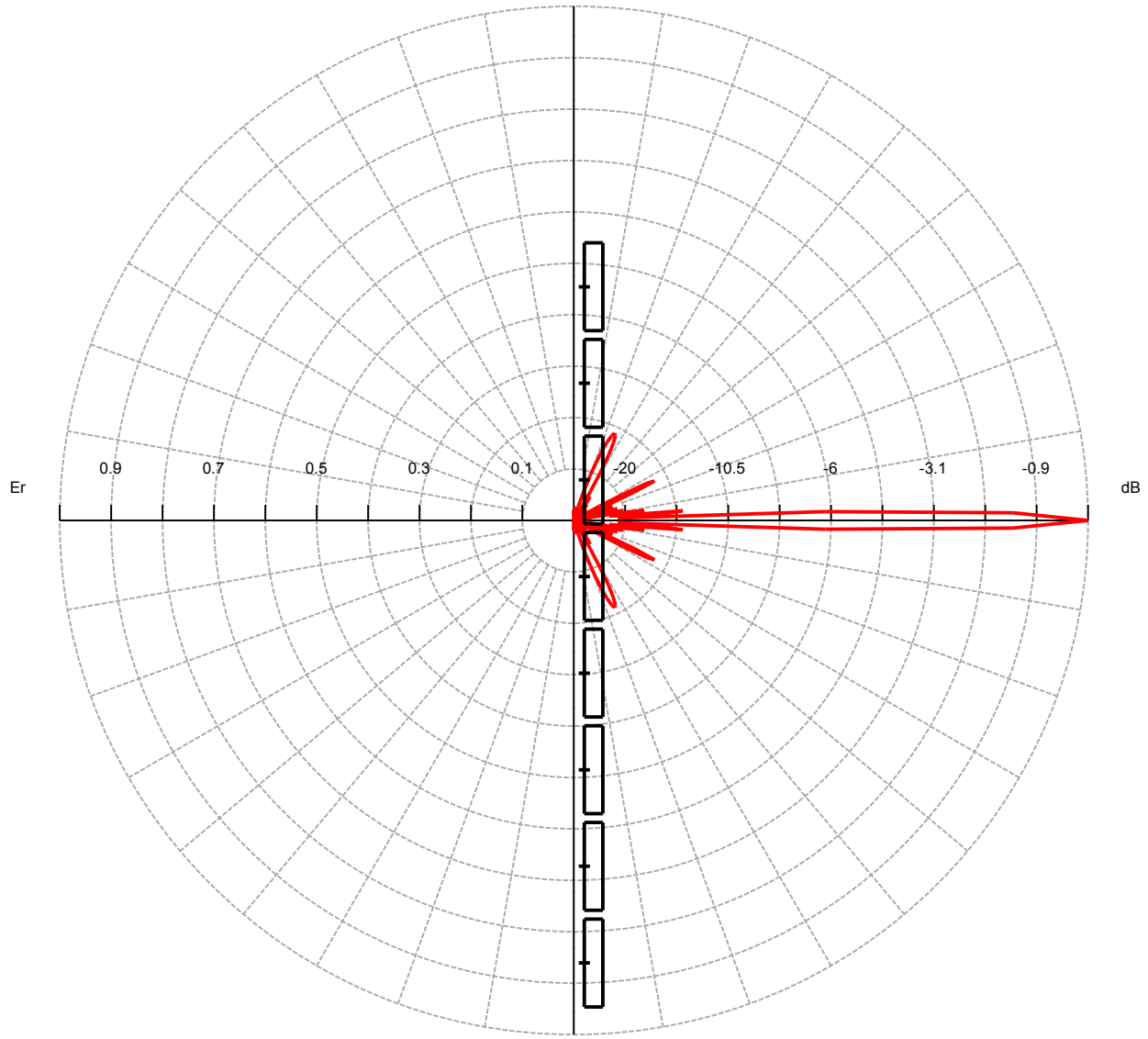
Vertical diagram at an azimuth of 0.0° degrees



0.0° Az. (Total Antenna), Gain (dBd): 19.97

ERP T.Max(KW): 99.2994 ERP E.Max(KW): 78.8763