

TX station: 4xUKK8

Gain solid integration : disabled

Site Name: Labelitaly

General data of Antenna System

TX station	4xUKK8
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

	<i>Antenna type 1</i>
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

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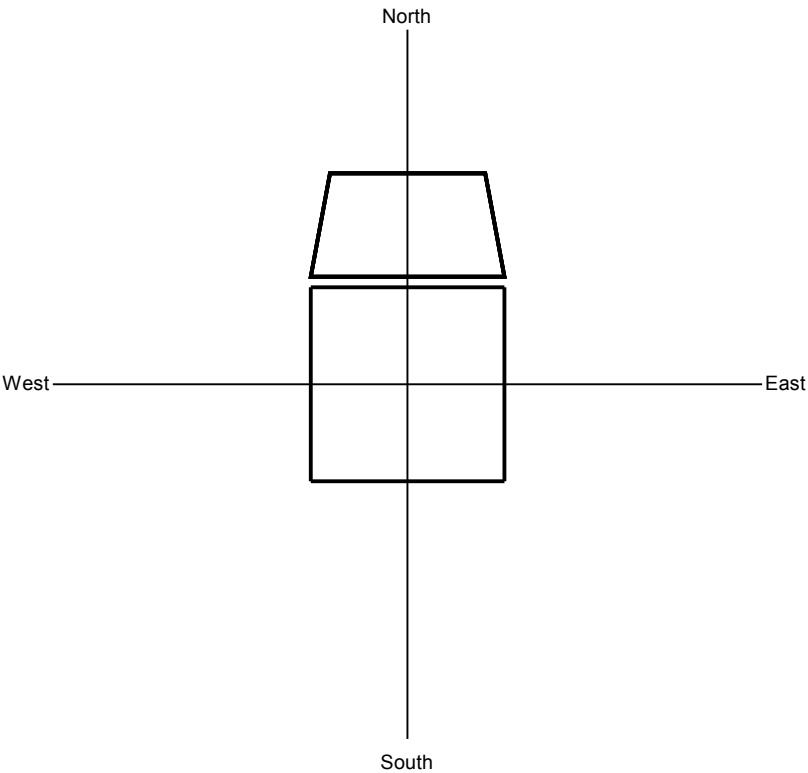
Geometr. and electrical data of Antenna System

	<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	25.000	0	0	0 +0.0	1.65	25.0	0.0	1	1	0.0	0.0
2	25.000	0	0	0 +0.0	0.55	25.0	0.0	1	1	0.0	0.0
3	25.000	0	0	0 +0.0	-0.55	25.0	0.0	1	1	0.0	0.0
4	25.000	0	0	0 +0.0	-1.65	25.0	0.0	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
B. Number of antennas	4
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)	17.02
G. Distribution losses (dB)	0.00
H. Nominal max gain [F - G] (dBd)	17.02
I. Compensation losses (dB)	0.00
J. Effec. max gain [H - I] (dBd)	17.02
K. Effec. max gain (times)	50.36
L. Effec. max power [E * K] (KW)	40.0000
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	16.0	90	-4.0	180	-4.0	270	-4.0
10	15.7	100	-4.0	190	-4.0	280	-4.0
20	14.9	110	-4.0	200	-4.0	290	0.4
30	13.5	120	-4.0	210	-4.0	300	5.3
40	11.4	130	-4.0	220	-4.0	310	8.8
50	8.8	140	-4.0	230	-4.0	320	11.4
60	5.3	150	-4.0	240	-4.0	330	13.5
70	0.4	160	-4.0	250	-4.0	340	14.9
80	-4.0	170	-4.0	260	-4.0	350	15.7

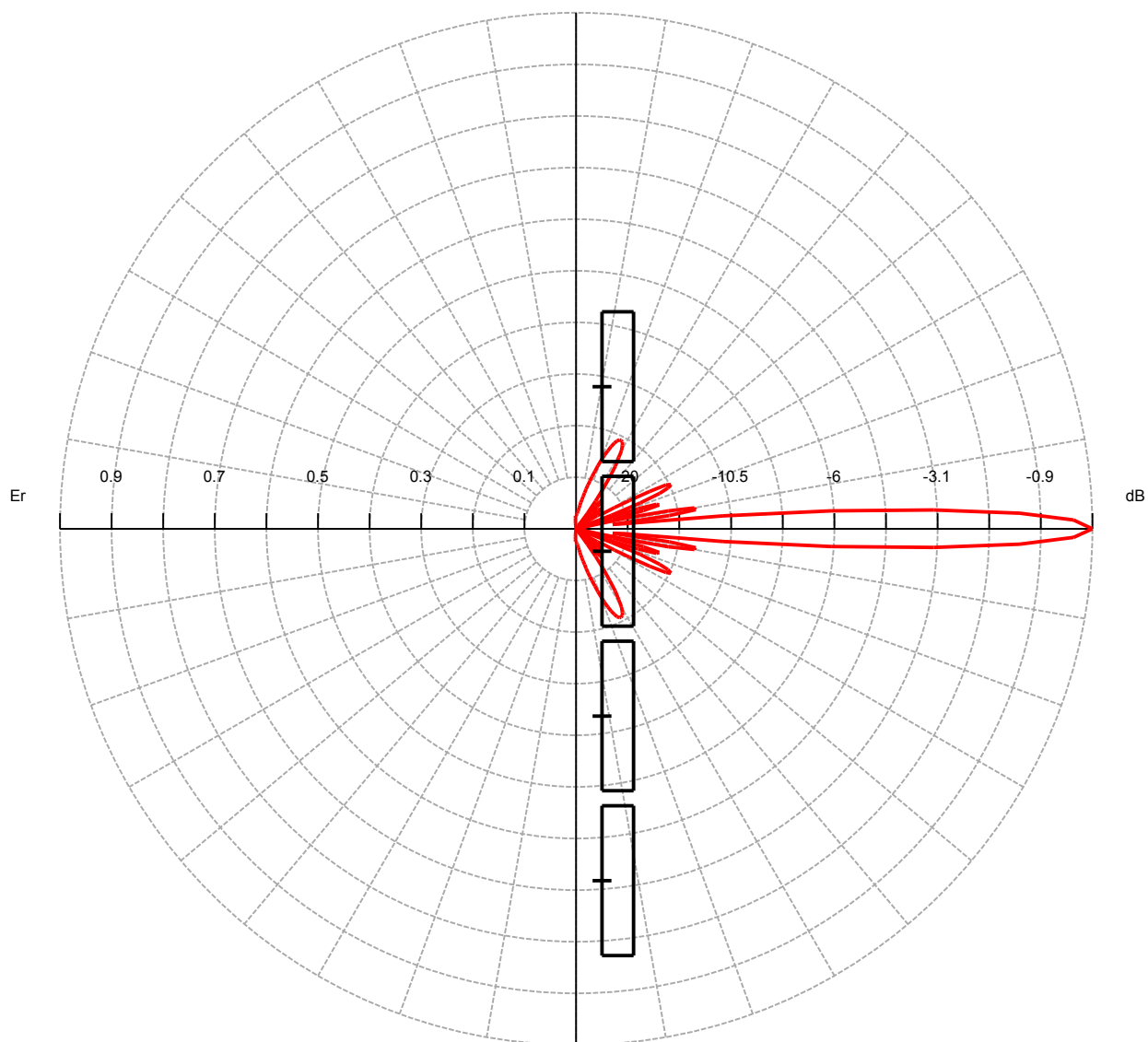
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Vertical diagram at an azimuth of 0.0° degrees



0.0° Az. (Total Antenna), Gain (dBd): 17.02

ERP T.Max(KW): 50.357 ERP E.Max(KW): 40