

TX station: 16xUkk8-h

Gain solid integration : enabled

Site Name: Labelitaly

General data of Antenna System

TX station	16xUkk8-h
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)	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)	0.3
Additional attenuations(dB)	0.2
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):	40.0
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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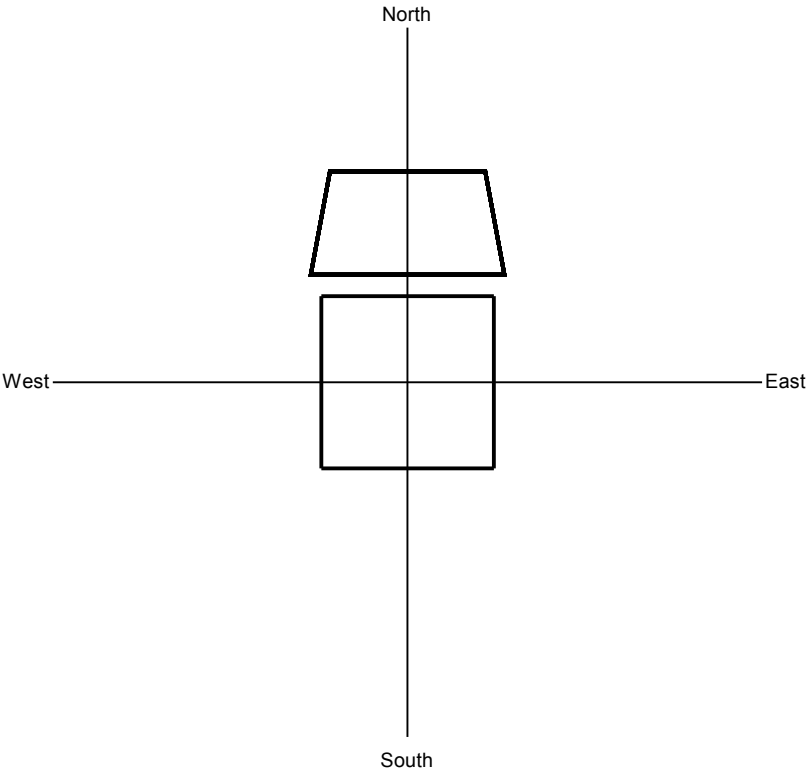
Geometr. and electrical data of Antenna System

	<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	6.250	0	0	0 +0.0	8.25	25.0	0.0	1	1	300.0	0.0
2	6.250	0	0	0 +0.0	7.15	25.0	0.0	1	1	300.0	0.0
3	6.250	0	0	0 +0.0	6.05	25.0	0.0	1	1	300.0	0.0
4	6.250	0	0	0 +0.0	4.95	25.0	0.0	1	1	300.0	0.0
5	6.250	0	0	0 +0.0	3.85	25.0	0.0	1	1	300.0	0.0
6	6.250	0	0	0 +0.0	2.75	25.0	0.0	1	1	300.0	0.0
7	6.250	0	0	0 +0.0	1.65	25.0	0.0	1	1	300.0	0.0
8	6.250	0	0	0 +0.0	0.55	25.0	0.0	1	1	300.0	0.0
9	6.250	0	0	0 +0.0	-0.55	25.0	0.0	1	1	300.0	0.0
10	6.250	0	0	0 +0.0	-1.65	25.0	0.0	1	1	300.0	0.0
11	6.250	0	0	0 +0.0	-2.75	25.0	0.0	1	1	300.0	0.0
12	6.250	0	0	0 +0.0	-3.85	25.0	0.0	1	1	300.0	0.0
13	6.250	0	0	0 +0.0	-4.95	25.0	0.0	1	1	300.0	0.0
14	6.250	0	0	0 +0.0	-6.05	25.0	0.0	1	1	300.0	0.0
15	6.250	0	0	0 +0.0	-7.15	25.0	0.0	1	1	300.0	0.0
16	6.250	0	0	0 +0.0	-8.25	25.0	0.0	1	1	300.0	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	16
C. Nominal power supply (W)	1000.00
D. Losses (addit. + cables) (dB)	0.5
E. Effective power supply (W)	891.25
F. Theor. maximum gain (dBd)	23.00
G. Distribution losses (dB)	0.00
H. Nominal max gain [F - G] (dBd)	23.00
I. Compensation losses (dB)	0.00
J. Effec. max gain [H - I] (dBd)	23.00
K. Effec. max gain (times)	199.66
L. Effec. max power [E * K] (KW)	177.9430
M. Max power depr. angle (°)	0.0
N. Max power az. angle (°)	0

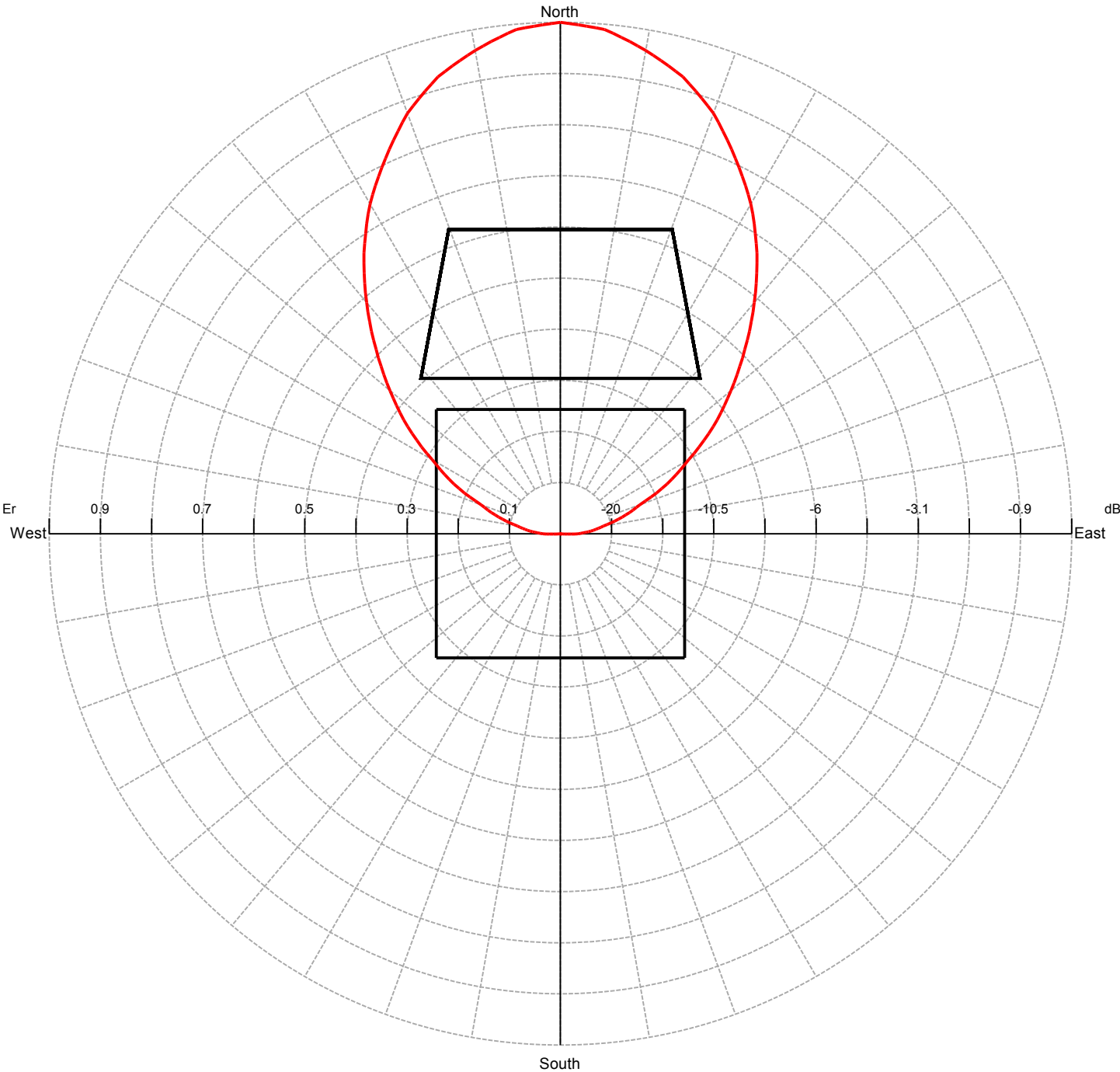
Diagram in dBK calculated at horizon

Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK
0	22.5	90	2.5	180	2.5	270	2.5
10	22.1	100	2.5	190	2.5	280	2.5
20	21.3	110	2.5	200	2.5	290	6.9
30	19.9	120	2.5	210	2.5	300	11.8
40	17.9	130	2.5	220	2.5	310	15.3
50	15.3	140	2.5	230	2.5	320	17.9
60	11.8	150	2.5	240	2.5	330	19.9
70	6.9	160	2.5	250	2.5	340	21.3
80	2.5	170	2.5	260	2.5	350	22.1

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Horizontal diagram at 0.0° depres. (Total Antenna)

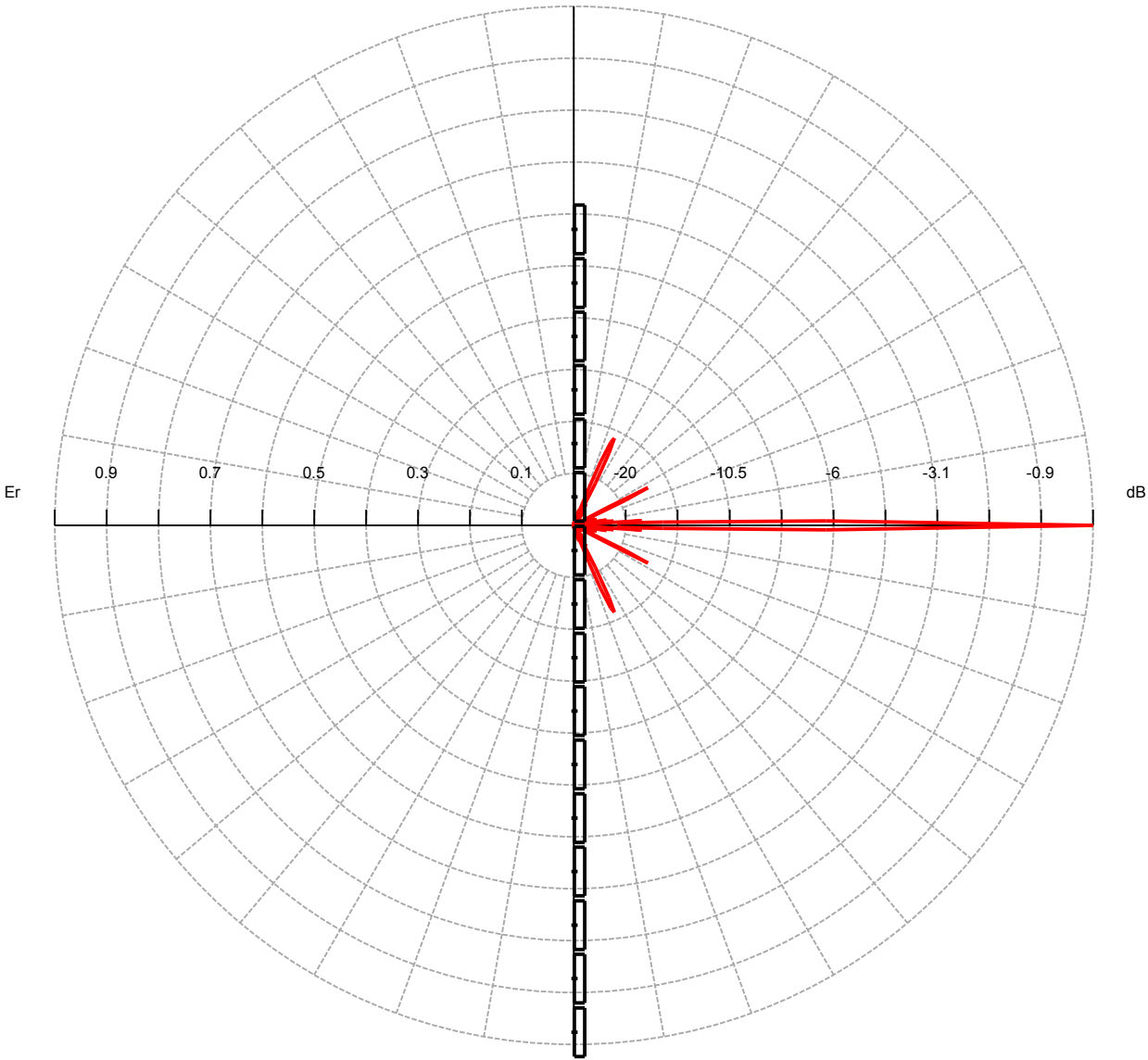


0.0° depres. (Total Antenna), Gain (dBd): 23 ERP T.Max(KW): 199.6553 ERP E.Max(KW): 177.943

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Vertical diagram at an azimuth of 0.0° degrees



0.0° Az. (Total Antenna), Gain (dBd): 23

ERP T.Max(KW): 199.6553 ERP E.Max(KW): 177.943