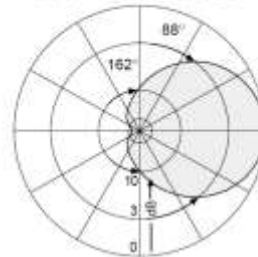


Prepared (also subject responsible if other) XSNABEM		No. 1301-KRE 101 2007/1 Uen		
Approved EAB/PJR/ST (L-O Fager)	Checked	Date 2006-05-10	Rev E	Reference

Antenna



880 – 960 MHz: +45°/–45° Polarization

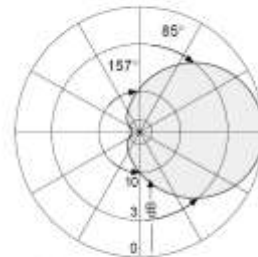


Horizontal Pattern

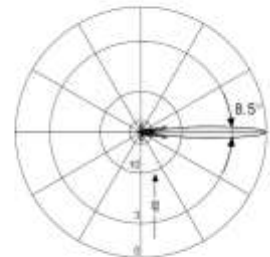


Vertical Pattern

824 – 894 MHz: +45°/–45° Polarization

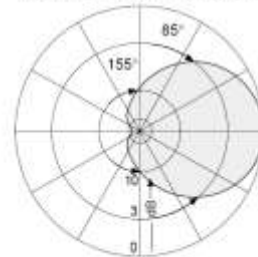


Horizontal Pattern

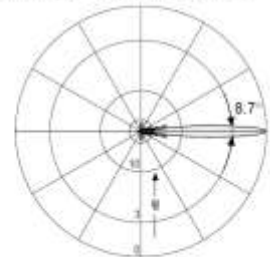


Vertical Pattern

806 – 866 MHz: +45°/–45° Polarization



Horizontal Pattern



Vertical Pattern

- 1 General**
- 1.1 Description**

Panel antenna for base stations. Two systems with +45° and -45° polarisation cover GSM 800 and GSM 900. Consists of arrays of dipole elements covered by a fibre glass radome.

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2 Characteristic values

2.1 Electrical data

Frequency range:	806–866 MHz	824–894 MHz	880–960 MHz
Polarisation:	+45°, -45°		
Gain:	2 x 16.5 dBi	2 x 16.6 dBi	2 x 16.8 dBi
Horizontal beamwidth:	85°	85°	88°
Vertical beamwidth:	8.7°	8.5°	8°
Sidelobe suppression: - first sidelobe above horizon	>18 dB	>18 dB	>18 dB
Front-to-back ratio, - co-polar:	>28 dB	>28 dB	>27 dB
Cross-polar ratio - main direction 0°: - sector ±30°: - sector ±60°:	Typically: 20 dB >20 dB >15 dB	Typically: 20 dB >20 dB >15 dB	Typically: 20 dB >17 dB >14 dB
Isolation between ports:	>30 dB		
Impedance:	50 ohm		
VSWR:	<1.5	<1.5	<1.5
Intermodulation:	IM3: -150 dBc @2x43 dBm		
Max power per input:	500 W (at 50° ambient temperature)		
Lightning protection	Metal parts and inner conductors DC grounded		

Other electrical data according to Basic Specification
4/1029-COA 109 120 Uen.

2.2 Mechanical Data

Rated wind velocity:	55.6 m/s
Wind load at 42 m/s,	frontal: 400 N
	lateral: 260 N
	rear side: 890 N
Connector type:	7-16 female (2 pcs)
Connector position:	rear side
Radome material:	glass fibre
Colour:	grey

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2.3 Dimensions

Height:	2254 mm
Width:	259 mm
Depth:	99 mm
Weight:	17 kg

3 Accessories

The following accessory is delivered with the antenna. Quantities: see product list.

Product no	Supplier code	Description
SXA 120 106/1	738 546	1 clamp, mast diam. = 50–115 mm

The following accessory is an option to be ordered separately.

Product no	Supplier code	Description
SXA 120 103/7	737 977	Down-tilt kit 0°– 9°

4 Environmental Endurance

According to Basic Specification 4/1029-COA 109 120 Uen.

Operating temperature:	low:	-55°C
	high (dry):	+60°C

5 Internal Information

Supplier: Kathrein

6 Product List

Product no	Supplier code	
KRE 101 2007/1	¹⁾	

¹⁾ Consists of: antenna 800 10213
 clamps 738 546 (2 pcs)