# **Panel Dual Polarization** Half-power Beam Width **Fixed Electrical Downtilt**

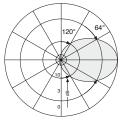
806-960 X 65° 0°



XPol Panel 806-960 65° 18dBi 0°T

Type No.		800 10204				
Frequency range		806–960				
		806 – 866 MHz	824 – 894 MHz	880 – 960 MHz		
Polarization		+45°, -45°	+45°, -45°	+45°, -45°		
Gain		2 x 17.4 dBi	2 x 17.6 dBi	2 x 17.8 dBi		
Horizontal Pattern:						
Half-power beam width		68°	66°	64°		
Front-to-back ratio (180°±30°)		> 25 dB	> 25 dB	> 25 dB		
Cross polar ratio Maindirection Sector Sector Vertical Pattern: Half-power beam width	0° ±30° ±60°	> 18 dB > 16 dB > 10 dB	> 19 dB > 16 dB > 10 dB	> 20 dB > 17 dB > 11 dB		
Sidelobe suppression for: first sidelobe above horizon sector 0°–30° above horizon		> 15 dB > 15 dB	> 15 dB > 15 dB	> 15 dB > 14 dB		
Impedance		50 Ω				
VSWR		< 1.5	< 1.4	< 1.4		
Isolation		> 30 dB				
Intermodulation IM3		< -150 dBc (2 x 43 dBm carrier)				
Max. power per input		500 W (at 50 °C ambient temperature)				

880 - 960 MHz: +45°/-45° Polarization

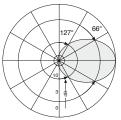




Horizontal Pattern

Vertical Pattern

824 - 894 MHz: +45°/-45° Polarization





Horizontal Pattern

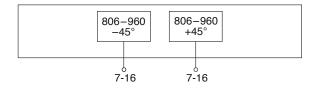
806 - 866 MHz: +45°/-45° Polarization





Horizontal Pattern

Vertical Pattern



Mechanical specifications							
Input	2 x 7-16 female						
Connector position	Rearside						
Weight	10.9 kg						
Wind load	Frontal: 400 N (at 150 km/h) Lateral: 260 N (at 150 km/h) Rearside: 890 N (at 150 km/h)						
Max. wind velocity	200 km/h						
Packing size	2386 x 292 x 192 mm						
Height/width/depth	2254 / 259 / 99 mm						

Internet: http://www.kathrein.de

936.3410/c Subject to alteration.

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# 936.3410/c Subject to alteration.

# **Accessories General Information**

# KATHREIN Antennen · Electronic

### Accessories (order separately)

Type No.	Description	Remarks	Weight approx.	Units per antenna
738 546	1 clamp	Mast: 50 – 115 mm diameter	1.0 kg	2
850 10002	1 clamp	Mast: 110 – 220 mm diameter	2.7 kg	2
850 10003	1 clamp	Mast: 210 – 380 mm diameter	4.8 kg	2
737 978	1 downtilt kit	Downtilt angle: 0° - 9°	2.8 kg	1

For downtilt mounting use the clamps for an appropriate mast diameter together with the downtilt kit.

Material: Reflector screen: Weather-proof aluminum.

Fiberglass radome: The grey fiberglass radomes of these antennas are very stable and extraordinarily stiff. They are resistant to ultraviolet radiation and can also be painted to match their surroundings.

All screws and nuts: Stainless steel.

The metal parts of the antenna including the mounting kit and the inner Grounding:

conductors are DC grounded.

Environmental conditions: Kathrein cellular antennas are designed to operate under the environ-

mental conditions as described in ETS 300 019-1-4 class 4.1 E. The antennas exceed this standard with regard to the following items:

- Low temperature: -55 °C - High temperature (dry): +60 °C

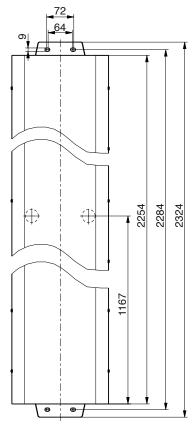
Ice protection: Due to the very sturdy antenna construction and the protection of the radiating system by the radome, the antenna remains

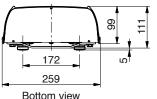
operational even under icy conditions.

Kathrein antennas have passed environmental tests as recommended **Environmental tests:** 

in ETS 300 019-2-4. The homogenous design of Kathrein's antenna families use identical modules and materials. Extensive tests have been

performed on typical samples and modules.





### Please note:

As a result of more stringent legal regulations and judgements regarding product liability, we are obliged to point out certain risks that may arise when products are used under extraordinary operating conditions.

The mechanical design is based on the environmental conditions as stipulated in ETS 300 019-1-4, which includes the static mechanical load imposed on an antenna by wind at maximum velocity.

Extraordinary operating conditions, such as heavy icing or exceptional dynamic stress (e.g. strain caused by oscillating support structures), may result in the breakage of an antenna or even cause it to fall to the ground. These facts must be considered during the site planning process.

The installation team must be properly qualified and also be familiar with the relevant national safety regulations.

The details given in our data sheets have to be followed carefully when installing the antennas and accessories.

The limits for the coupling torque of RF-connectors, recommended by the connector manufacturers must be obeyed.

Any previous datasheet issues have now become invalid.

