Dual-band Panel

824-960	1710-2180	
X	X	
65°	65 °	
0°–14°	0°-8°	
С		



Dual Polarization Half-power Beam Width Adjust. Electr. Downtilt **Integrated Combiner**

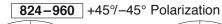
Downtilt set by hand or by optional RCU (Remote Control Unit)

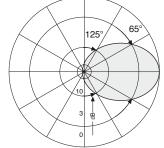
XXPol Panel 824-960/1710-2180 C 65%65° 14/17dBi 0°-14%0°-8°T

Туре No.	742 223				
Frequency range	824–960		1710-2180		
	824-894 MHz	880–960 MHz	1710–1880 MHz	1850-1990 MHz	1900-2180 MHz
Polarization	+45°, -45°	+45°, -45°	+45°, -45°	+45°, -45°	+45°, -45°
Gain	2 x 14 dBi	2 x 14 dBi	2 x 16.5 dBi	2 x 16.8 dBi	2 x 17 dBi
Horizontal Pattern:					
Half-power beam width	68°	65°	66°	63°	62°
Front-to-back ratio, copolar	> 26 dB	> 26 dB	> 25 dB	> 25 dB	> 25 dB
Cross polar ratio Maindirection 0° Sector ±60°	Typically: 20 dB > 10 dB	Typically: 20 dB > 10 dB	Typically: 18 dB > 10 dB	Typically: 19 dB > 10 dB	Typically: 20 dB > 10 dB
Vertical Pattern:			1	1	
Half-power beam width	15.5°	14.3°	7.8°	7.7°	7.4°
Electrical tilt	0°-14°, continuously adjustable		0°-8°, continuously adjustable		
Sidelobe suppression for first sidelobe above main beam		0° 7° 14° T 16 14 13 dB			0° 4° 8° T 15 17 17 dB
Impedance	50 Ω				
VSWR	< 1.5				
Isolation: Intrasystem	> 30 dB				
Intermodulation IM3	< -150 dBc (2 x 43 dBm carrier)				
Max. power	250 W 200 W (at 50 °C ambient temperature)				
Max. power per combined input	450 W (at 50 °C ambient temperature)				
Integrated combiner	The insertion loss is included in the given antenna gain values.				

14 5

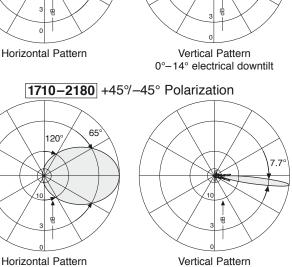




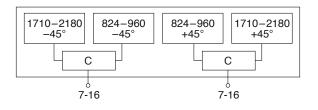


Horizontal Pattern

Internet: http://www.kathrein.de



0°-8° electrical downtilt



Mechanical specifications

-				
Input	2 x 7-16 female (long neck)			
Connector position	Bottom			
Adjustment mechanism	2x, Position bottom continuously adjustable			
Weight	16.5 kg			
Wind load	Frontal: 230 N (at 150 km/h) Lateral: 180 N (at 150 km/h) Rearside: 430 N (at 150 km/h)			
Max. wind velocity	200 km/h			
Packing size	1626 x 282 x 172 mm			
Height/width/depth	1316 / 262 / 139 mm			

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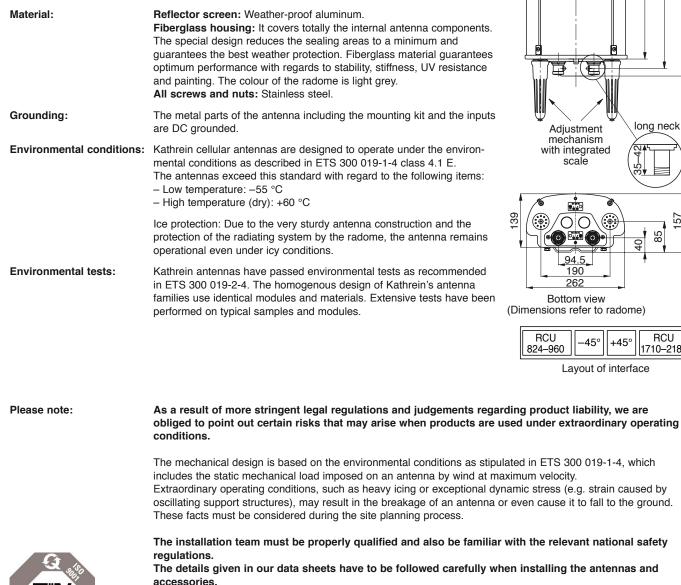
936.3279/a Subject to alteration.

Accessories **General Information**

Accessories (order separately)

					_
Туре 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	_
733 677	1 clamp	Mast: 60 – 115 mm diameter	2.0 kg	2	_
733 678	1 clamp	Mast: 115 – 210 mm diameter	2.6 kg	2	_
733 679	1 clamp	Mast: 210 – 380 mm diameter	4.0 kg	2	_
733 680	1 clamp	Mast: 380 – 521 mm diameter	5.3 kg	2	_
737 974	1 downtilt kit	Downtilt angle: 0° – 16°	2.8 kg	1	_

For downtilt mounting use the clamps for an appropriate mast diameter together with the downtilt kit. Wall mounting: No additional mounting kit needed.



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.

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Internet: http://www.kathrein.de

1316 367 407

long neck

822

RCU

1710-2180

936.3279/a Subject to alteration

5

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45

+45

64

General Instructions for Adjustment Mechanism



Description of the adjustment mechanism (protective cap removed):



 Adjustment wheel with twist-lock function.

② Downtilt spindle with integrated scale.



- Thread for fixing the protective cap or the RCU (Remote Control Unit).
- ⁽²⁾ Gearwheel for RCU power drive.



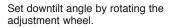
To set the downtilt angle exactly, you must look horizontally at the scale. The lower edge of the gearwheel must be used for alignment.

Manual adjustment procedure:



Remove the protective cap.







Screw on the protective cap again.

Optional: RCU (Remote Control Unit) for remote-controlled downtilt adjustment:

936.3279/a Subject to alteration.



For a description of RCU installation please refer to the respective data sheet.

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