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X

65°

2°-10°

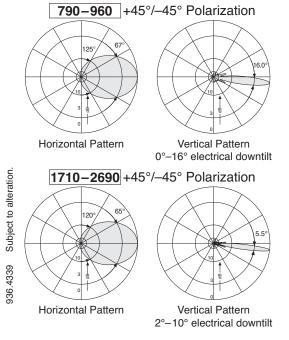
Dual-band Panel 790-960 1710-2690 **Dual Polarization** X **Half-power Beam Width** 65° Adjust. Electr. Downtilt 0°-16°

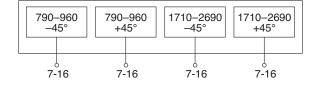


set by hand or by optional RCU (Remote Control Unit)

XXPol Panel 790-960/1710-2690 65°/65° 15/17.5dBi 0°-16°/2°-10°T

Type No.	80010664						
	790-960		1710-2690				
Frequency range	790 – 862 MHz	824 – 894 MHz	880 – 960 MHz	1710 – 1880 MHz	1850 – 1990 MHz	1920 – 2170 MHz	2490 – 2690 MHz
Polarization	+45°, -45°	+45°, –45°	+45°, -45°	+45°, -45°	+45°, -45°	+45°, –45°	+45°, -45°
Average gain (dBi) Tilt	14.5 14.4 14.2 0° 8° 16°	14.6 14.5 14.3 0° 8° 16°	14.8 14.6 14.4 0° 8° 16°	17.2 17.3 16.8 2° 5° 10°	17.4 17.4 16.9 2° 5° 10°	17.6 17.7 17.0 2° 5° 10°	17.2 17.3 16.7 2° 5° 10°
Horizontal Pattern:							
Half-power beam width	69°	68°	67°	63°	64°	66°	65°
Front-to-back ratio, copolar (180°±30°)	> 25 dB	> 25 dB	> 25 dB	> 25 dB	> 28 dB	> 29 dB	> 25 dB
Cross polar ratio Maindirection 0° Sector ±60°	Typically: 25 dB > 10 dB	Typically: 25 dB > 9 dB	Typically: 25 dB > 8 dB	Typically: 18 dB > 9 dB	20 dB > 10 dB	20 dB > 10 dB	23 dB > 8 dB
Vertical Pattern:							
Half-power beam width	16.5°	16.0°	15.5°	6.2°	5.8°	5.2°	4.8°
Electrical tilt	0°-16°, continuously adjustable		stable	2°-10°, continuously adjustable			
Sidelobe suppression for first sidelobe above main beam	0° 8° 16° T 16 15 15 dB	0° 8° 16° T 16 15 15 dB	0° 8° 16° T 15 15 14 dB	2° 5° 10° T 14 15 16 dB	2° 5° 10° T 14 15 17 dB	2° 5° 10° T 15 16 17 dB	2° 5° 10° T 15 17 18 dB
Impedance	50 Ω						
VSWR	<1.5						
Isolation: Intrasystem	> 30 dB			> 28 dB			> 30 dB
Isolation: Intersystem	> 30 dB (790–960 // 1710–2690)						
Intermodulation IM3	<-150 dBc (2 x 43 dBm carrier)						
Max. power per input Total power	500 W (at 50 °C ambient temperature) 1000 W (at 50 °C ambient temperature)			250 W (at 50 °C ambient temperature) 500 W (at 50 °C ambient temperature)			





Mechanical specifications							
Input	4 x 7-16 female (long neck)						
Connector position	Bottom						
Adjustment mechanism	2x, Position bottom continuously adjustable						
Wind load	Frontal: 690 N (at 150 km/h) Lateral: 270 N (at 150 km/h) Rearside: 720 N (at 150 km/h)						
Max. wind velocity	200 km/h						
Height/width/depth	1403 / 300 / 152 mm						
Category of mounting hardware	M (Medium)						
Weight	18 kg / 20 kg (clamps incl.)						
Packing size	1726 x 322 x 190 mm						
Scope of supply	Panel and 2 units of clamps for 42 – 115 mm diameter						



Adjustment mechanism with integrated scale 1433

Accessories

Type No.	Description	Remarks	Weight approx.	Units per antenna
738546	1 clamp	Mast: 42 – 115 mm diameter	1.1 kg	2 (included in the scope of supply)
731651	1 clamp	Mast: 28 - 60 mm diameter	0.8 kg	2 (order separately if required)
85010002	1 clamp	Mast: 110 – 220 mm diameter	2.7 kg	2 (order separately if required)
85010003	1 clamp	Mast: 210 – 380 mm diameter	4.8 kg	2 (order separately if required)
737974	1 downtilt kit	Downtilt angle: 0° – 16°	2.8 kg	1 (order separately if required)

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

Material: Reflector screen: Aluminum.

Fiberglass housing: It covers totally the internal antenna components. The special design reduces the sealing areas to a minimum and guarantees the best weather protection. Fiberglass material guarantees optimum performance with regards to stability, stiffness, UV resistance

and painting. The color of the radome is light grey.

All nuts and bolts: Stainless steel or hot-dip galvanized steel.

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

conductors are DC grounded.

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

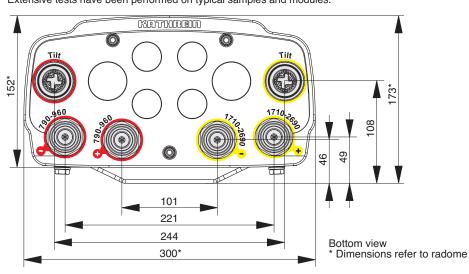
Ice protection: Due to the very sturdy antenna construction and the protection of the radiating system by the radome, the antenna remains $% \left(1\right) =\left(1\right) +\left(1\right) +$

operational even under icy conditions.

Environmental tests: Kathrein antennas fulfil the stated specifications after completion of the environmental tests as defined in ETS 300 019-2-4. The homogenous design of Kathrein's antenna families uses identical modules and materials.

design of Kathrein's antenna families uses identical modules and material 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 and thereby respects the static mechanical load imposed on an antenna by wind at maximum velocity. Wind loads are calculated according to DIN 1055-4. 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.

TÜV MANAGEMENT SERVICE 936.4339 Subject to alteration

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