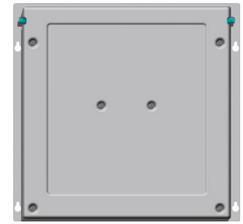**KATHREIN**

The SMSH-30-30-KRAI-ETSI antenna has been developed for applications in the field of point of sale, smart shelf applications and Kanban solutions. The antenna is characterised by an extremely homogeneous read zone which is emitted by the high front-to-back ratio. Therefore, it is suitable for static detection of multiple transponders.

Due to its extremely thin design, the antenna module can be integrated into different applications. The antenna is equipped with an intelligent bypass circuit that allows for cascading up to 8 SMSH modules per reader port. The control is done by a suitable ©KRAI Kathrein RFID reader. The ©KRAI control signals are transmitted via the standard antenna cable.

Features

- antenna module with protective housing and @KRAI
- FAKRA connectors
- for applications in radiated near field, suitable for static and dynamic tag identification
- extremely thin design
- equipped with a ruggedised aluminium backplane (100 x 100, M6 screws)
- read range: 3 m
- very homogenous reading field
- extremely high front-to-back ratio
- cascadable up to 8 antennas SMSH-30-30-KRAI-ETSI per reader port
- cascadability possible only with @KRAI readers, single antenna only useable with @KRAI readers

General Specifications

Order No.		52010481
Type		SMSH-High-Gain-KRAI-ETSI
Frequency range	[MHz]	865–868
©KRAI		cascading
Protection cover		✓
Polarisation		circular
Antenna gain	[dBiC]	typ. 4.5
Axial ratio	[dB]	typ. 1
Impedance	[Ohm]	50
VSWR		typ. 1.3:1
Front-to-back ratio	[dB]	> 20
Max. input power	[dBm]	+33
Far-field half-power beam width	[°]	60/60
Connection		input: FAKRA Z-coded
		output: FAKRA Z-coded
Weight	[kg]	1.3
Degree of protection		indoor use only
Operating temperature range	[°C]	−20 to +55
Storage temperature range	[°C]	−40 to +85
Dimensions (L x W x H)	[mm]	330 x 340 x 21.5
Package size (L x W x H)	[mm]	approx. 345 x 350 x 35
Material		fibreglass-epoxy resin; thermoplastic radome; UV resistant, stainless steel (backplane)

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Key Applications

- point-of-sales applications
- Kanban applications
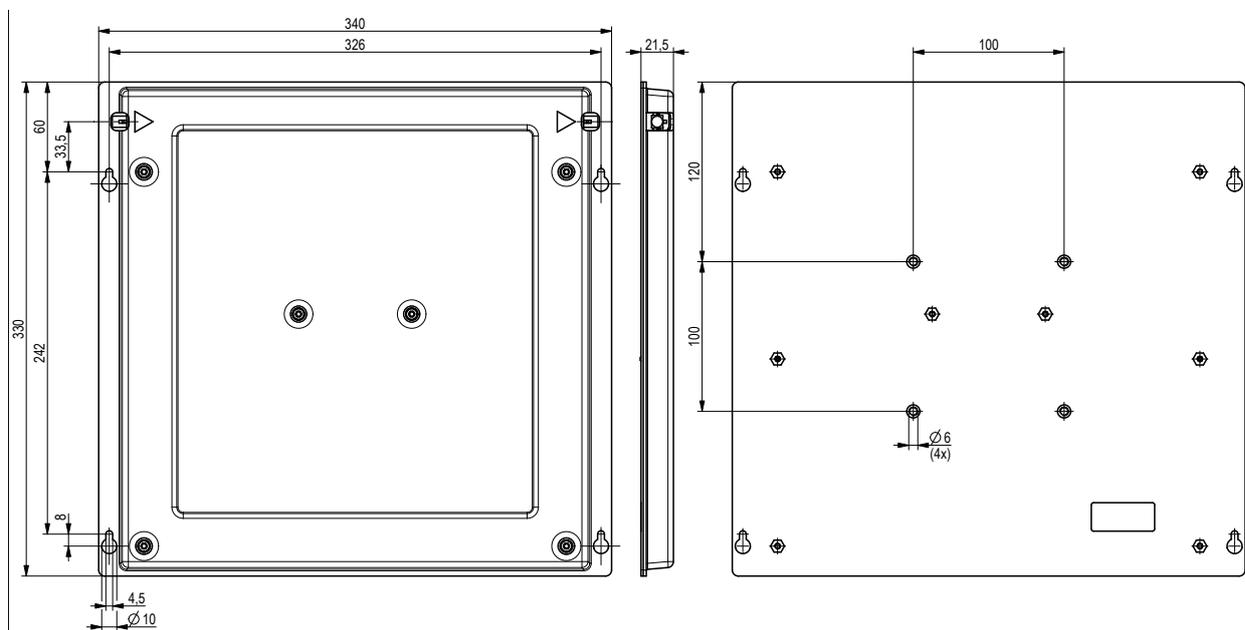- smart shelf applications
- conveyor belt applications

Accessories (Optional)

You can find all accessories at http://www.kathrein-solutions.com/products/hardware/accessories.

Mounting Options

- 4 elongated holes Ø 4.5 mm for M4 screws to mount on wall/ceiling

Dimensions

Note

Risk of material damage!
► Make sure that the depth at which the M6 screws are put into the backplane does not exceed 8 mm.