

Smart Shelf RFID UHF Antenna

SMSH-30-30-KRAI-Slave

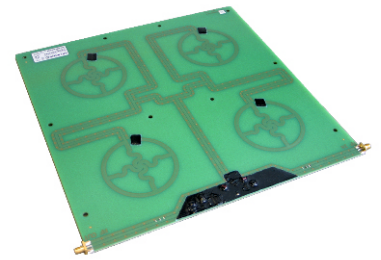
Order-No. 52010197

KATHREIN
RFID

Features:



- Antenna module for further integration
- Applications in near-field
- Extremely thin design
- Reading range: 0 - 50 cm
- Very homogeneous reading field
- Extremely high front-to-back ratio
- Suitable for static tag identifications
- Cascadable up to 8 antennas SMSH-30-30-KRAI-Slave per reader port
- Cascadability possible only with © KRAI Reader
- Single antenna only useable with © KRAI Reader
- Mechanical protective housing available as an accessory (Order-No. 52010224) to retrofit the SMSH-30-30-KRAI-Slave



Order-No.		52010197
Frequency range	MHz	865-928
Polarization		circular
Antenna gain	dBiC	typ. -7
Axial ratio	dB	typ. 1.5
VSWR		typ. 1.25:1
Impedance	Ω	50
Front-to-back ratio	dB	> 20
max. input power (ETSI EN 302 208)	dBm	+33
max. input power (FCC 15.247)	dBm	+30 (at antenna port)
Far field half-power beam width	°	60/60
Connection		input: SMA socket output: SMA socket
Operating temperature range	°C	-20 to +55
Storage temperature range	°C	-40 to +85
Degree of protection		Indoor use only
Weight	kg	0.5
Dimensions	mm	320 x 300 x 8.6
Packing size	mm	ca. 330 x 310 x 25

Notes:

- The antenna can be operated only in conjunction with a © KRAI Reader

Housing material:

- fiberglass-epoxy resin
- copper
- gold

Mounting:

- 10 trough-holes $\varnothing$ 4.5 mm for M4 screws

Accessories: (optional)

- Mechanical protective housing SMSH-30-30-Housing for the upper side (Order-No. 52010224) to retrofit the SMSH-30-30-KRAI-Slave



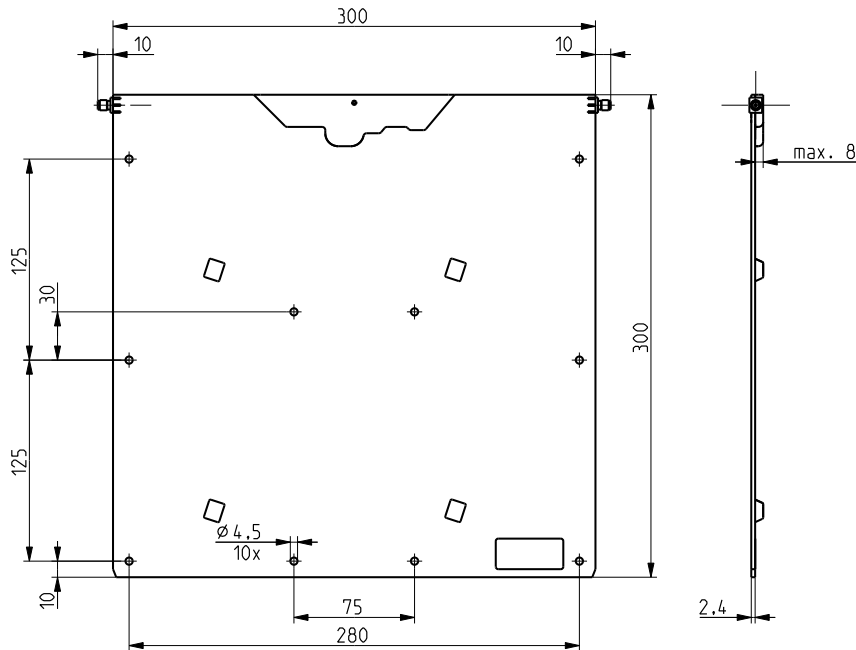
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SMSH-30-30-KRAI-Slave

Order-No. 52010197

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Mechanical view and dimensions in mm:



Description: The SMSH 30-30-KRAI slave antenna was developed for applications in the field of point of sale, smart shelf applications and Kanban solutions. The antenna is characterized 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 their extremely thin design, the antenna module can be integrated into different applications universal.

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.

Areas of Application:

- Point of sales applications
- Smart shelves applications
- Kanban applications
- Conveyor belt



Smart Shelf RFID UHF Antenne

SMSH-30-30-KRAI-Slave

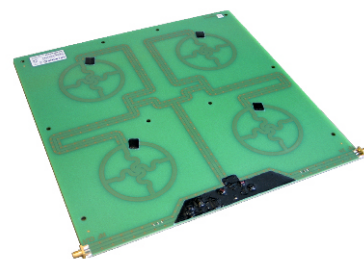
Bestell-Nr. 52010197

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RFID

Merkmale:



- Antennen-Module zur weiteren Integration
- Anwendungen im strahlenden Nahfeld
- Extrem dünne Bauform
- Leseabstand: 0 - 50 cm
- Sehr homogenes Lesefeld
- Extrem hohes Vor-Rück_verhältnis
- Geeignet für statische Tag Identifikation
- Pro Reader-port bis zu 8 SMSH-30-30-KRAI-Slave-Antennen kaskadierbar
- Kaskadierbarkeit nur mit © KRAI Reader möglich
- Als einzelne Antenne Betrieb nur mit © KRAI Reader möglich
- mechanisches Schutzgehäuse als Zubehör erhältlich (Bestell-Nr. 52010224) zum Nachrüsten der SMSH-30-30-KRAI-Slave



Bestell-Nr.		52010197
Frequenzbereich	MHz	865-928
Polarisation		zirkular
Antennen-Gewinn	dBiC	typ. -7
Achsverhältnis	dB	typ. 1,5
VSWR		typ. 1,25:1
Impedanz	Ω	50
Vor-Rück-Verhältnis	dB	> 20
max. eingespeiste Leistung (ETSI EN 302 208)	dBm	+33
max. eingespeiste Leistung (FCC 15.247)	dBm	+30 (an Antennen-Buchse)
Fernfeldöffnungswinkel	°	60/60
Anschluss		Eingang: SMA-Buchse Ausgang: SMA-Buchse
Betriebs-Temperaturbereich	°C	-20 bis +55
Lager-Temperaturbereich	°C	-40 bis +85
Schutzart		Indoor
Gewicht	kg	0,5
Abmessungen	mm	320 x 300 x 8,6
Verpackungsabmessungen	mm	ca. 330 x 310 x 25

Anmerkungen:

- Die Antenne lässt sich nur in Verbindung mit einem © KRAI Reader betreiben

Gehäusematerial:

- Glasfaser Epoxidharz
- Kupfer
- Gold

Montage:

- 10 Durchgangsbohrungen Ø 4,5 mm für M4-Schrauben

Zubehör: (optional)

- mechanisches Schutzgehäuse SMSH-30-30-Housing für die Oberseite (Bestell-Nr. 52010224) zum Nachrüsten der SMSH-30-30-KRAI-Slave



