



## RFID systems

# FLOOR MAT

Our floor antennas offers world leading, high-performance detection in vertical RFID UHF reading and is designed for indoor but also for outdoor applications. Our concealed loss prevention solution is embedded into the shop floor. They blend into the store design but at the same time offer an exceptionally detection performance.

### No backfield

Our invisible floor antennas are characterized by the lack of side detection. This allows tagged goods to be close to the entrance for more an earlier interaction with the store visitor.

### Made in Germany

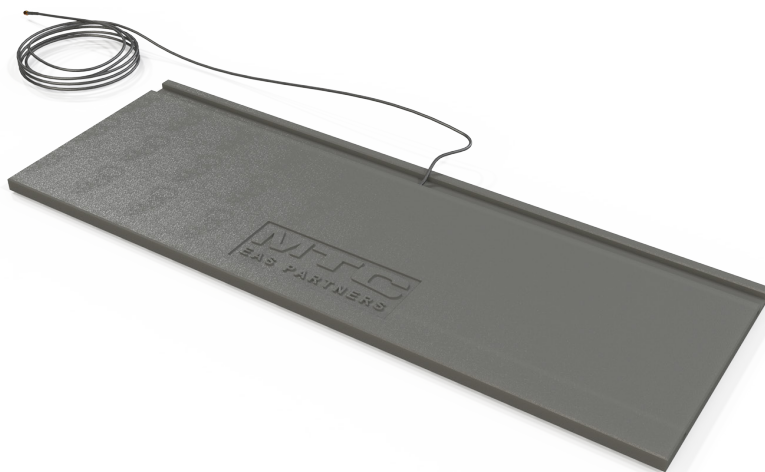
Our RFID antennas are produced in our own factory in Germany. They are made of a durable, flexible material so they can be easily integrated into any floor. We offer 3 fixed sizes so that every passage width can be secured without problems.

### Heavy duty

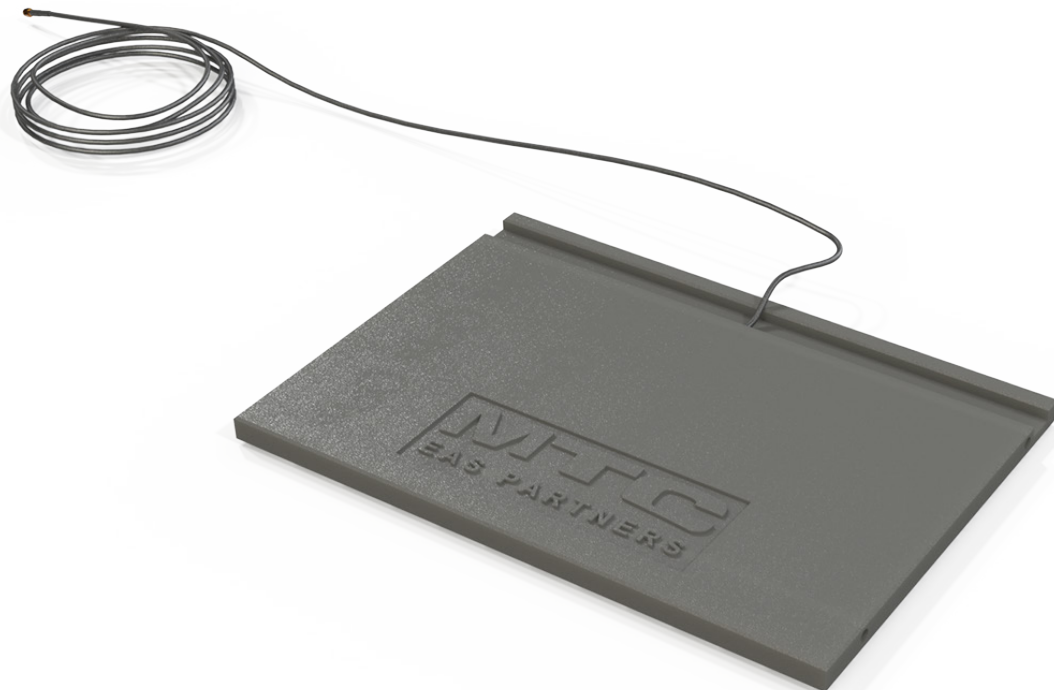
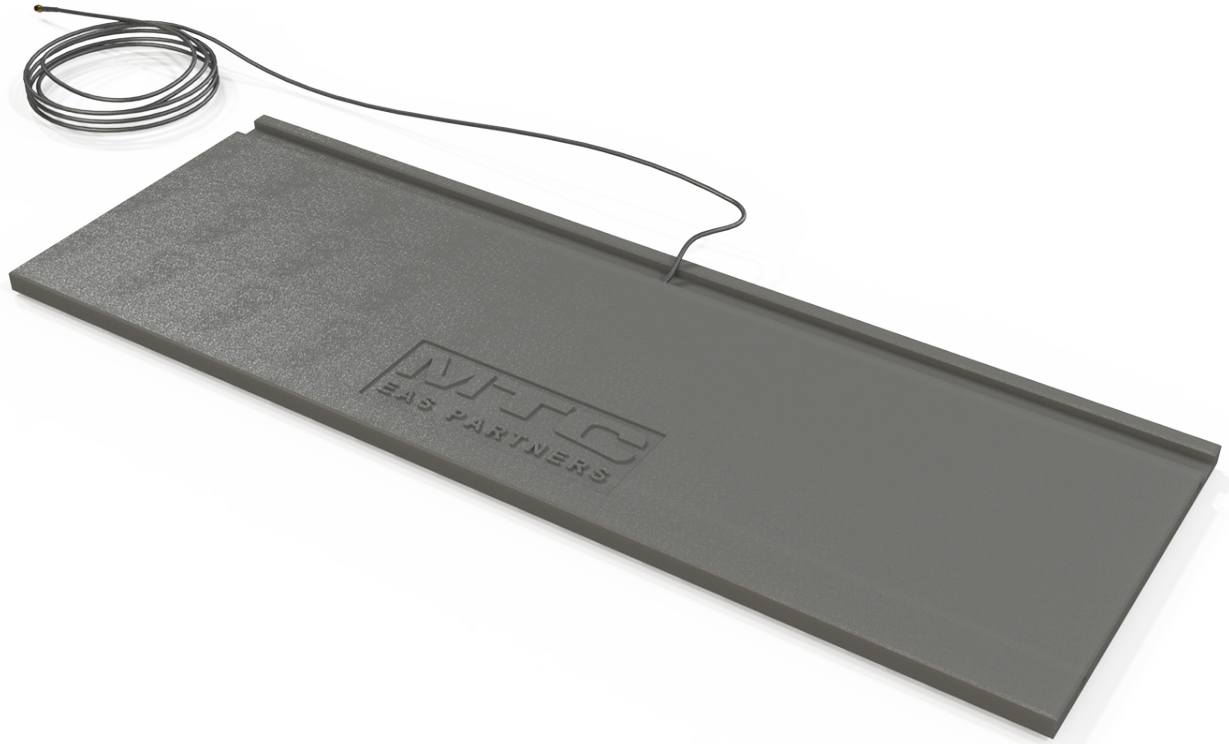
Although the RFID floor antennas are mostly used within the retail market, it was taken into account that they should be applicable in different sectors. They are **IP68 classified** and can be used both indoors and outdoors.

### Versatile connection

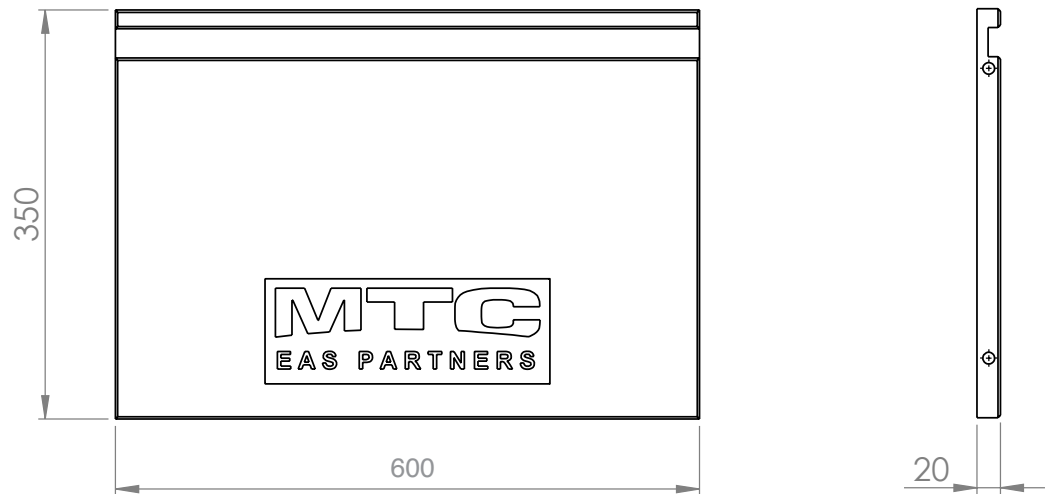
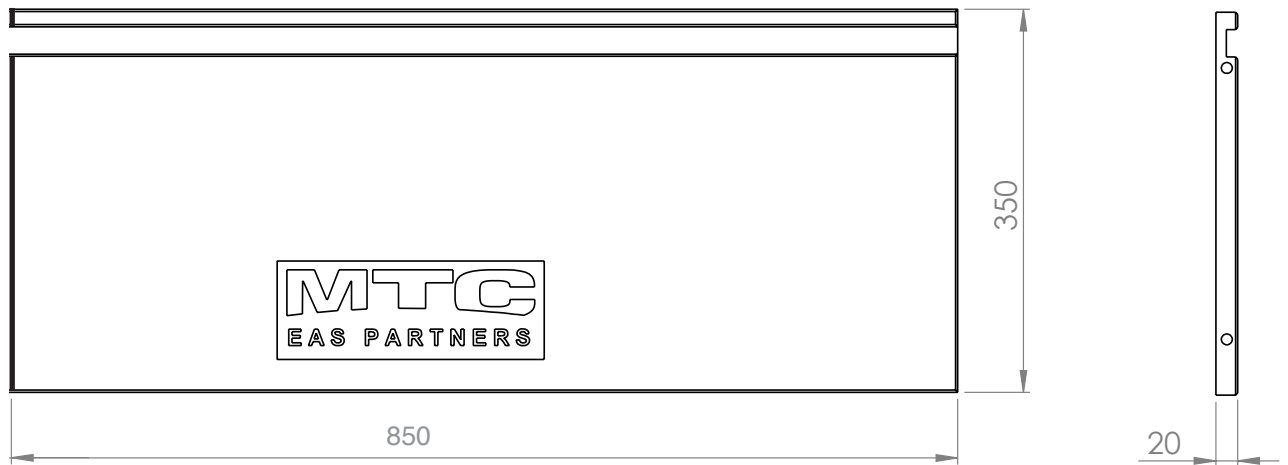
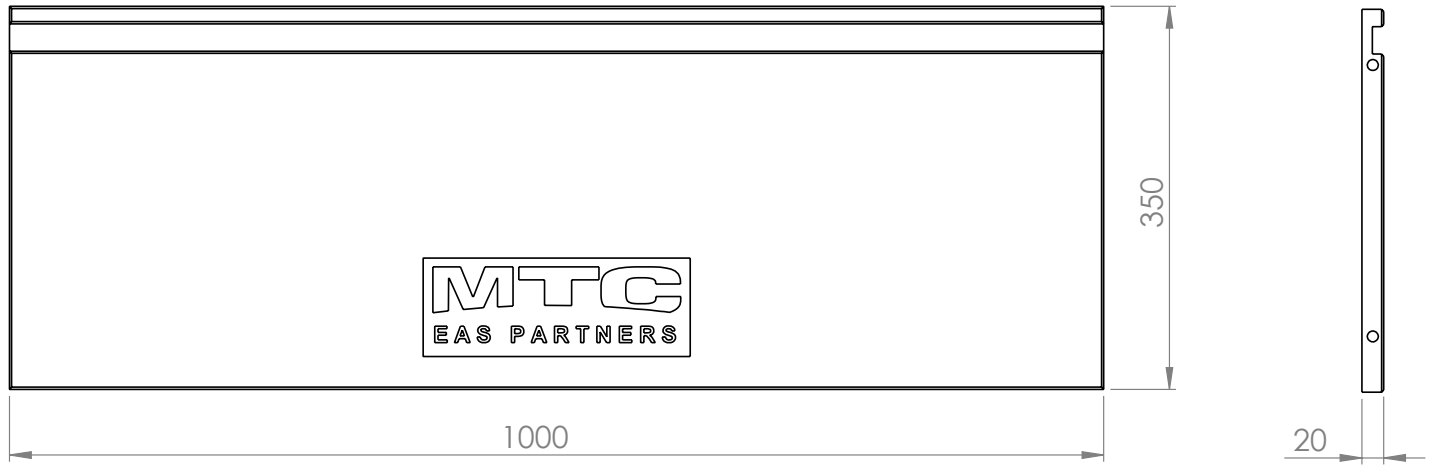
The floor antennas are able to be connected to any controller.



# FLOOR MAT System design



# FLOOR MAT System dimensions



# FLOOR MAT System specifications

## Technical specs

Operating Frequency EU Version	865-868 MHz
Polarization	Circular
Detection distance	Depending on tags used up to 1.8 meter
Beam width	10° short side / 65° long side
Antenna gain	≈12 dBi @ 866 MHz
Impedance VSWR	50 Ω < 1.2:1
Connection	1x SMA with max 7m cable
Chemicals	IP 68
Weight	Depending on size, starting at 8 kg.
Dimensions	500/1000 * 350 * 20 mm
Operating Temp.	-20C to +55C

## Product reference

1000 mm version EU	XS-R1FM100C-7
1000 mm version US	XS-R1FM100C-7U
850 mm version EU	XS-R1FM85C-7
850 mm version EU	XS-R1FM85C-7
600 mm version EU	XS-R1FM60C-7
600 mm version US	XS-R1FM60C-7U



Since 2004, MTC has been the trusted loss prevention solution supplier for both local and global distributors. Meanwhile, we are proud to have our products trusted, successfully sold and installed in more than 75 countries.

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