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# FlexiRay™

## SFR3

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Ultra Slim RFID UHF Antenna

# FlexiRay™ SFR3



FlexiRay  
solution vs.  
Old-fashioned

One FlexiRay  
antenna replace two  
standard antennas,  
an expensive stand  
and provide a better  
radiation pattern

## Features



- Esthetic design suitable for indoor / outdoor RFID applications
- Rugged enclosure IP65 for industrial and logistic projects
- Low profile and modular antenna length
- Easy and flexible mounting capabilities
- VESA standard / mounting accessories
- Middle read range applications 4-7 meters\*

## High-quality design



Enables creation of RFID reading zones in entrances, exits, corridors, doors and gates / no matters if indoor or outdoor due to IP65 protection. Esthetic and pleasing design allows deploying the antennas in interiors for asset & people tracking in commercial, retail & library applications include outdoor/ indoor project in logistics and industrial environment, manufacturing, reading on conveyors and production lines.

## Applications



- RFID portals and reading zones in entrances, gates, doors and corridors
- Logistics, warehouse aisles, receiving, replenishment and shipping applications
- Manufacturing, conveyors and production lines
- Asset tracking in retail, commercial and library applications
- Access & attendance control

# FlexiRay SFR3 Antenna Options

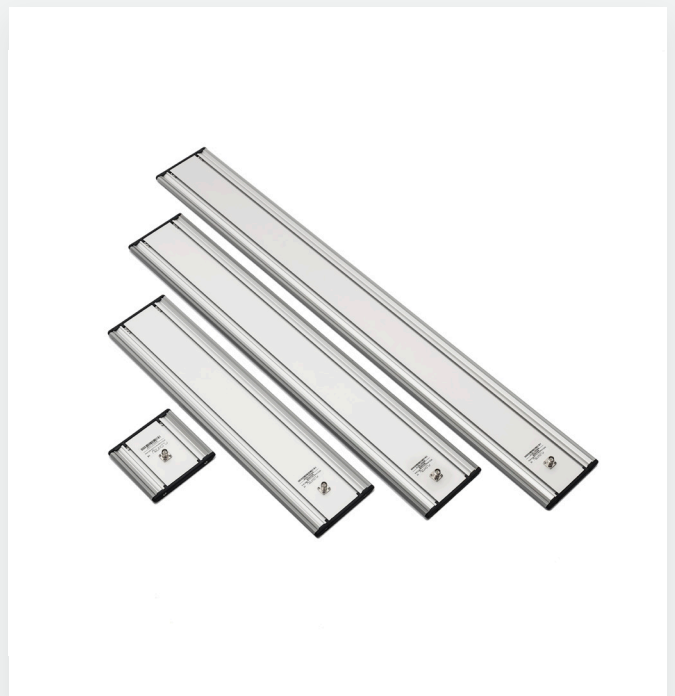
FlexiRay SFR3 is supplied in 4 lengths that allow optimal adaptation to vary installations. Rugged high-quality aluminum construction was developed for use indoor and outdoor in logistics, manufacturing and industrial environments. RFID UHF antenna FlexiRay SFR 3 provides flexible mounting capability. VESA 75 standard is supporting variety of mounting options. Antennas are equipped with RP-TNC connector optionally with SMA connector or 250 mm (9,8") pigtail SMA female connector.

Antenna was designed for middle range applications requiring reading characteristics along the whole antenna length. Using EIRP 2 W (maximum is 4 W in FCC band) it can achieve reading distance from 4 to 7 meters\*, depending on the type of antenna, used reader, cable length, RFID tags and environment. Antenna can be attached to any surface include metal.

*\* Tested in open-air environment, Alien / Impinj reader, 30 dBm, 4m cable, Alien Squiggle H3 tag*



SFR3 front side



SFR3 back side

# Technical Specification

Model Number	SFR-31XX	SFR-32XX	SFR-33XX	SFR-34XX
Frequency Range	866 - 868 MHz (ETSI), 902 - 928MHz (FCC)			
Connector	RP-TNC or SMA female pigtail 25 cm or SMA connector			
Polarization	RHCP	RHCP	RHCP	RHCP
Gain	5,5 dBic	5,5 dBic	5,5 dBic	5,5 dBic
Impedance	50 Ohms	50 Ohms	50 Ohms	50 Ohms
Max. Input Power	10 W	10 W	10 W	10 W
VSWR - ETSI	<1,3	<1,3	<1,3	<1,3
VSWR – FCC	<1,5	<1,5	<1,5	<1,5
Front-to-Back Ratio	16 dB	10 dB	10 dB	10 dB

## Dimensions (mm/inch)

Length (ETSI/FCC)	134 mm / 5,3"	584 mm / 23,0"	834 mm / 32,8"	1084 mm / 42,7"
Width	140 mm / 5,51"	140 mm / 5,51"	140 mm / 5,51"	140 mm / 5,51"
Height (without connector)	14 mm / 0,55"	14 mm / 0,55"	14 mm / 0,55"	14 mm / 0,55"
Weight	0,4 kg / 0,9 lbs	1,4 kg / 3,1 lbs	2,0 kg / 4,4 lbs	2,5 kg / 5,5 lbs
Protection Class	IP65	IP65	IP65	IP65
Operating Temperature	-25°C / 60°C	-25°C / 60°C	-25°C / 60°C	-25°C / 60°C

## Ordering code

ETSI (865 - 868 MHz), RP-TNC	SFR-3100	SFR-3200	SFR-3300	SFR-3400
ETSI (865 - 868 MHz), SMA (F)	SFR-3110	SFR-3210	SFR-3310	SFR-3410
ETSI (865 - 868 MHz), SMA (F) pigtail 25 cm	SFR-3120	SFR-3220	SFR-3320	SFR-3420
FCC (902 - 928 MHz), RP-TNC	SFR-3101	SFR-3201	SFR-3301	SFR-3401
FCC (902 - 928 MHz), SMA (F)	SFR-3111	SFR-3211	SFR-3311	SFR-3411
FCC (902 - 928 MHz), SMA (F) pigtail 25 cm	SFR-3121	SFR-3221	SFR-3321	SFR-3421