

Callidus floor UHF RFID antenna

PRODUCT FEATURES

- UHF RFID antenna designed for placement inside a poured concrete floor
- The maximum reading distance depends on the thickness of the floor layer above the antenna and is Inversely proportional to it
- No metal reinforcement shall be used in the floor layer above the antenna for this antenna to function properly
- Possibility of combination with floor AM TRX EAS system

CONNECTIVITY

- SMA - female

AVAILABLE ACCESSORIES

- RFID Reader

MECHANICAL

Width	51 cm (20.1 in)
Length	38 cm (15 in)
Thickness	1.9 cm (0.75 in)
Weight	3.25 kg

READING DISTANCE

for UHF RFID labels/tags	Up to 2m (78.7 in) (depending on multiple factors as floor thickness, set transmit power, GEN2 settings, used tags)
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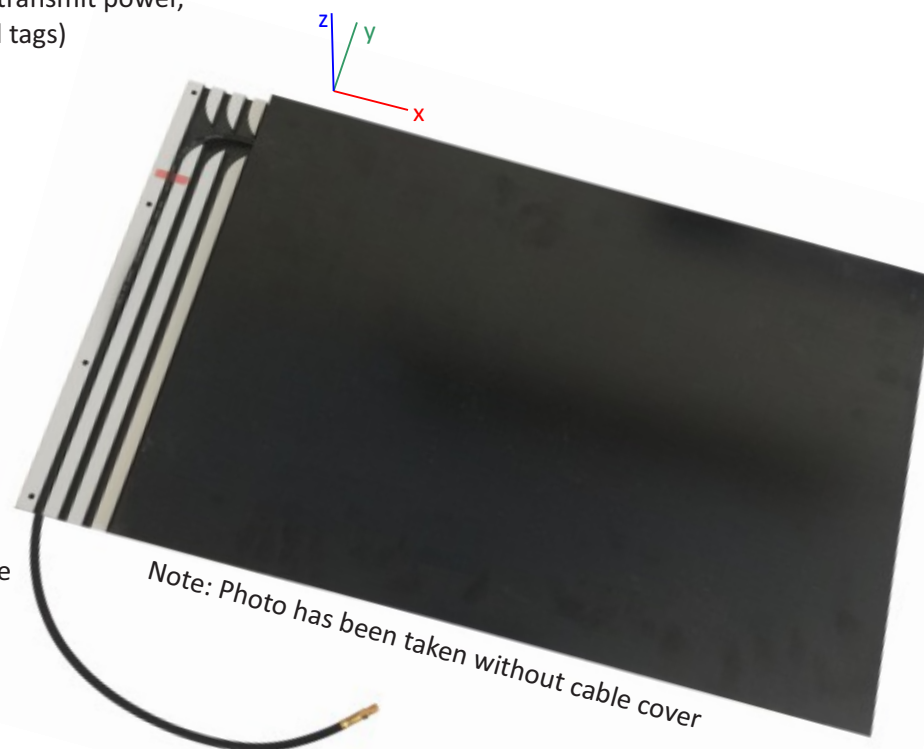
ELECTRICAL

Operating frequency EU (ETSI)	865-868 MHz
Operating frequency US (FCC)	902-928 MHz
Gain for 40 mm concrete thickness above the antenna	4 dBiC
Polarization	circular
3dB beamwidth in axle XZ	65°
3dB beamwidth in axle YZ	75°
Input impedance	50 Ω
VSWR / return loss	1.4 typically

Recommended thickness of the floor layer above the antenna	40 - 50 mm concrete
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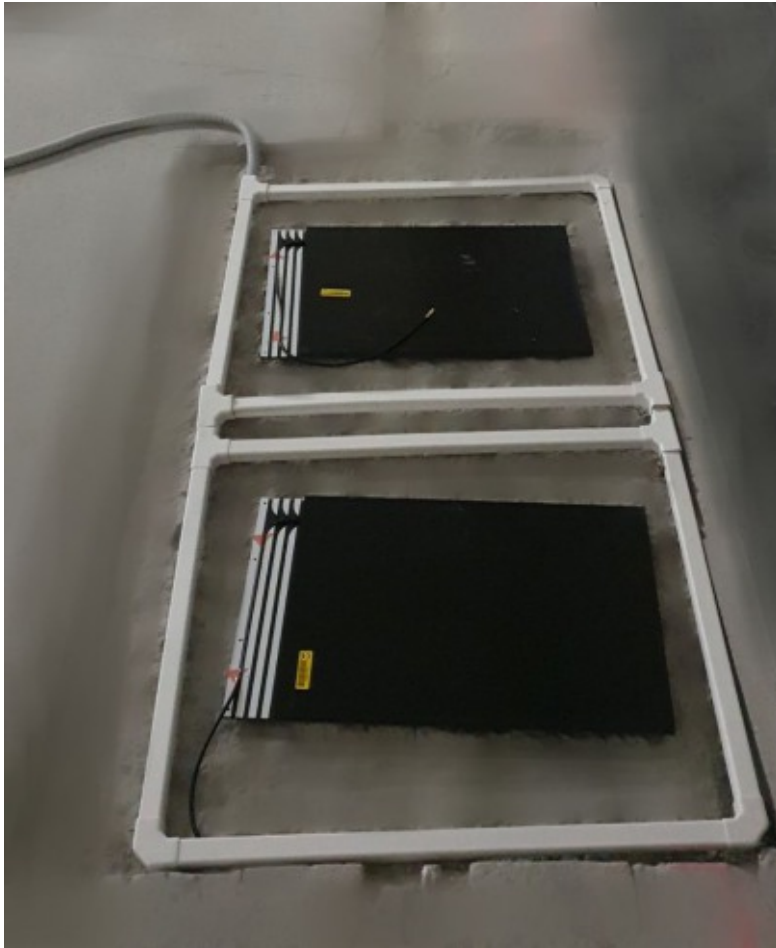
ENVIRONMENTAL

Ambient temperature	0-35°C (equipment for normal indoor use)
Relative humidity	0-90% (non-condensing)



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Example of use with floor AM TRX concealed EAS system



PRODUCT ORDER CODES

Callidus floor UHF RFID antenna	
EU version (ETSI)	21-501.EU (R1)
US version (FCC)	21-501.US (R1)
8 port UHF RFID reader Gen2	18-333
AM TRX 166x74 U4 concealed EAS system	17-530.U4
AM TRX 130x74 U4 concealed EAS system	17-535.U4
AM TRX 166x74 U15 concealed EAS system	17-550.U15
AM TRX 130x74 U15 concealed EAS system	17-555.U15
Callidus AM TRX controller	19-011.CEU (.CUS, .CUK)
Callidus AM TRX controller with UL PSU	19-014.CEU (.CUS, .CUK)