

Antene Antonics - aplikacije na vozilima

KONČAR
ELEKTRIČNA VOZILA

Stjepan Lovrek
08.12.2023.

Antene Antonics

- Imaju certifikate za ugradnju na željezničarka vozila (EN 50155, EN 45545, ...)
- U jednom kućištu ima više modula
- Bez obzira na broj modula kućište je istih dimenzija
- Robusno kućište
- Uz antena mogu se naručiti i pripadajući antenski kabele željene duljine i montiranim antenskom konektorima
- Dostupna sva dokumentacija (certifikati, montažni nacrt, detaljne upute za montažu, ...)
- Dostupna tehnička podrška
- Nije potrebno održavanje
- Unifikacija opreme



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TMK 2200 ZET

2016. godine



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TMK 2200 ZET

OmPlecs®-TOP 200 AMR MF-04

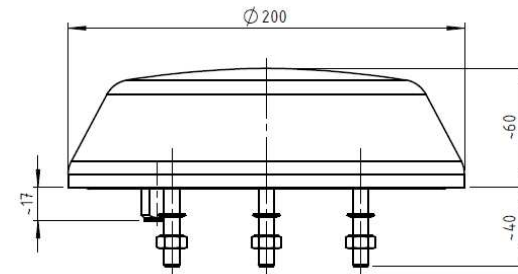
- Bahnantenne / Train Antenna -

LTE 700 - GSM-R - GSM 1800 - UMTS - LTE 2600

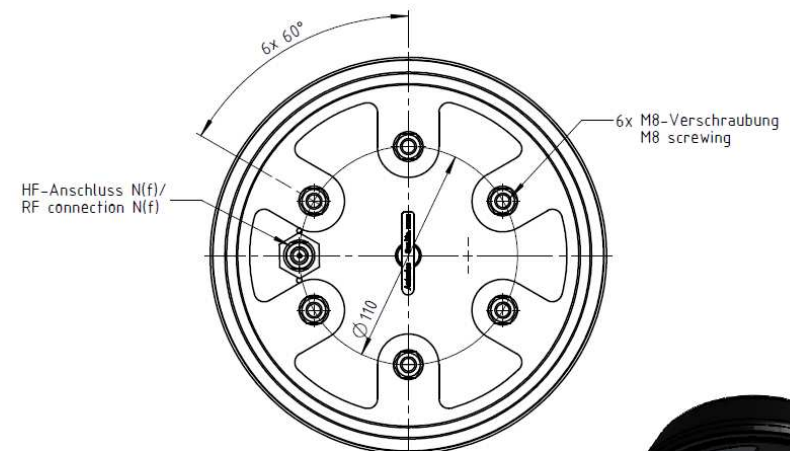


100-58-10-02

RF-Port	(a)
Spectrum	GSM-R / UMTS / LTE



LTE (a) – Wi-Fi



TMK 2200 ZET

OmPlecs®-TOP 200 AMR MF-04

- Bahnantenne / Train Antenna -

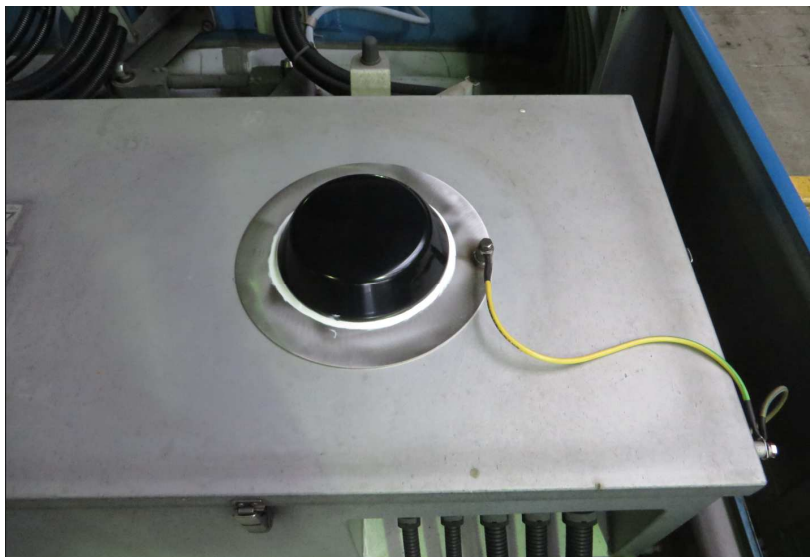
LTE 700 - GSM-R - GSM 1800 - UMTS - LTE 2600



100-58-10-02

RF-Port	(a)
Spectrum	GSM-R / UMTS / LTE

LTE (a) – Wi-Fi



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Lokomotive HŽ PP 1 142 008, 009 i 007

2017. godine



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Lokomotive HŽ PP 1 141 300 SP

2018. Godine

HŽ PP 1 141 385, 386, 388, 389 i 390



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Lok. HŽ PP 1 142 Lok. HŽ PP 1 141 300 SP

OmPlecs®-TOP 200 AMR MF-04 -3-

- Bahnantenne / Train Antenna -

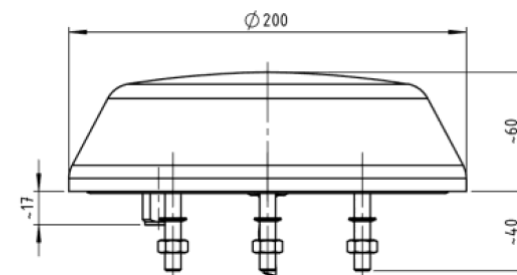


LTE 700 (MIMO) - GSM-R - GSM 1800 - UMTS - LTE 2600 (MIMO) - GPS - GLONASS - Galileo - BeiDou

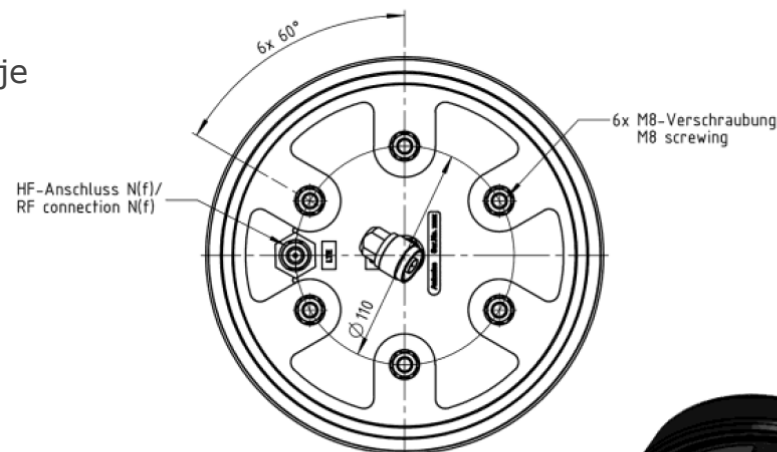
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RF-Port	Ⓐ	Ⓑ
Spectrum	GSM-R / GSM 1800 / UMTS / LTE	GPS / GLONASS / Galileo / BeiDou

- LTE (a) – najava stanica i praćenje vlaka
GPS (b) – najava stanica i praćenje vlaka, mjerenje energije



HF-Anschluss N(m)-Winkelstecker
mit RG223-FRNC-Koaxialkabel /
RF connection N(m) angle plug
with RG223 FRNC coaxial cable



Lok. HŽ PP 1 142 Lok. HŽ PP 1 141 300 SP

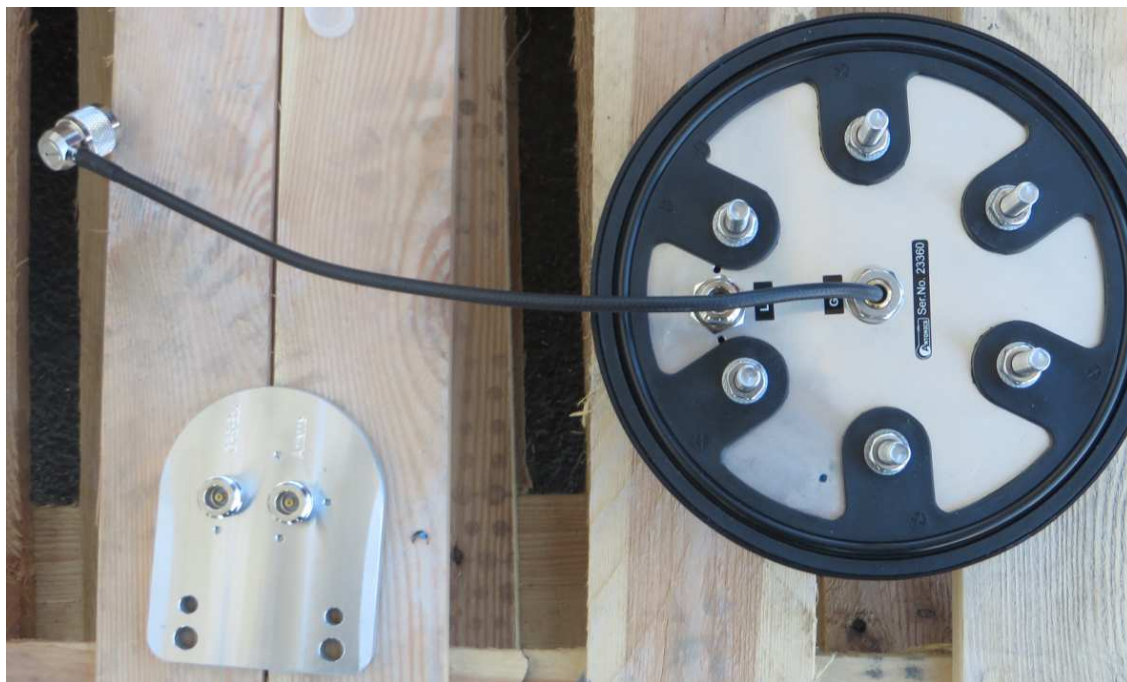
OmPlecs®-TOP 200 AMR MF-04 -3-

- Bahnantenne / Train Antenna -

LTE 700 (MIMO) - GSM-R - GSM 1800 - UMTS - LTE 2600 (MIMO) - GPS - GLONASS - Galileo - BeiDou



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DMV HŽ PP 7 023

Početak primjene na 7 023 002
2019. godine
4 + 7 DMV



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EMV HŽ PP 6 112

EMV HŽ PP 6 112 012 – 017 (6 EMV-ova za RP)

EMV HŽ PP 6 112 112 – 117 (6 EMV-ova za GPP)

2021. godine



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DMV HŽ PP 7 023 EMV HŽ PP 6 112

OmPlecs®-TOP 200 AMR MF-04 -5- MIMO LG

- Bahnantenne / Train antenna -

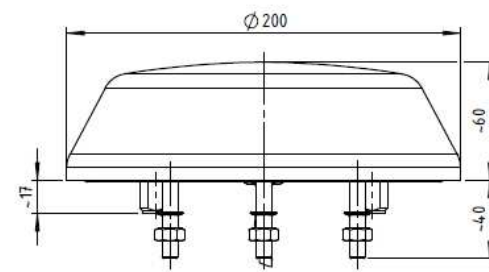
LTE 700 (MIMO) - GSM-R - GSM 1800 - UMTS - LTE 2600 (MIMO) - GPS - GLONASS - Galileo - BeiDou

RF-Port	Ⓐ	Ⓑ	Ⓒ
Spectrum	GSM-R / GSM 1800 UMTS / LTE	GSM-R / GSM 1800 UMTS / LTE	GPS / GLONASS / Galileo / BeiDou

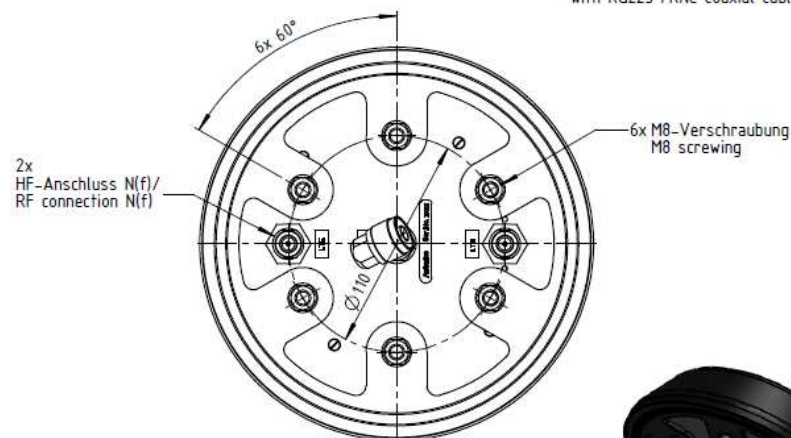
- LTE (a) – najava stanica i praćenje vlaka
 LTE (b) – Wi-Fi
 GPS (c) – najava stanica i praćenje vlaka



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HF-Anschluss N(m)-Winkelstecker
mit RG223-FRNC-Koaxialkabel /
RF connection N(m) angle plug
with RG223 FRNC coaxial cable



DMV HŽ PP 7 023 EMV HŽ PP 6 112

OmPlecs®-TOP 200 AMR MF-04 -5- MIMO LG

- Bahnantenne / Train antenna -

LTE 700 (MIMO) - GSM-R - GSM 1800 - UMTS - LTE 2600 (MIMO) - GPS - GLONASS - Galileo - BeiDou



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RF-Port	Ⓐ	Ⓑ	Ⓒ
Spectrum	GSM-R / GSM 1800 UMTS / LTE	GSM-R / GSM 1800 UMTS / LTE	GPS / GLONASS / Galileo / BeiDou

- LTE (a) – najava stanica i praćenje vlaka
- LTE (b) – Wi-Fi
- GPS (c) – najava stanica i praćenje vlaka



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EMV HŽ PP 6 112 TSI

EMV HŽ PP 6 112 201 – 211 (11 EMV-ova za GPP)

EMV HŽ PP 6 112 301 – 311 (10 EMV-ova za RP)

2022. godine



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EMV HŽ PP 6 112 TSI

OmPlecs®-TOP 200 AMR MF-04 -5- MIMO 4x4 LWG - Bahnantenne / Train Antenna -

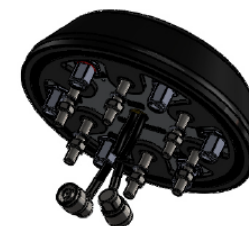
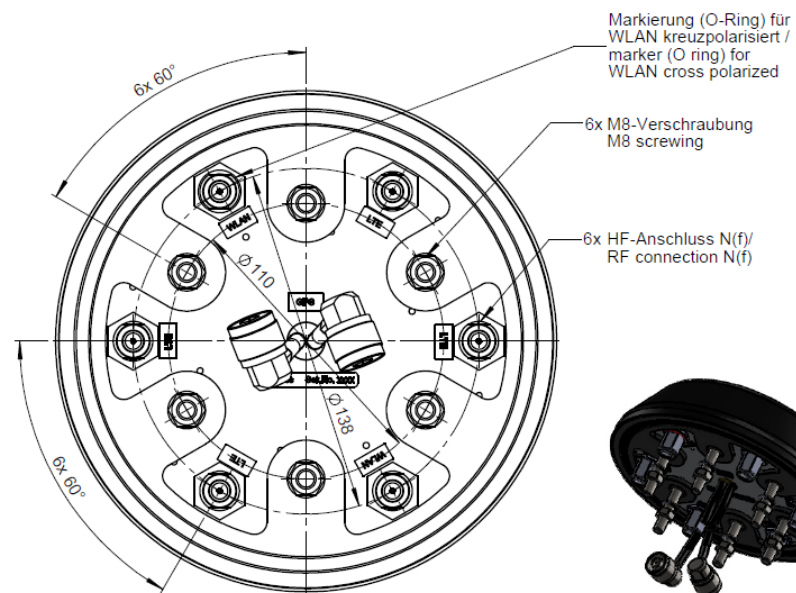
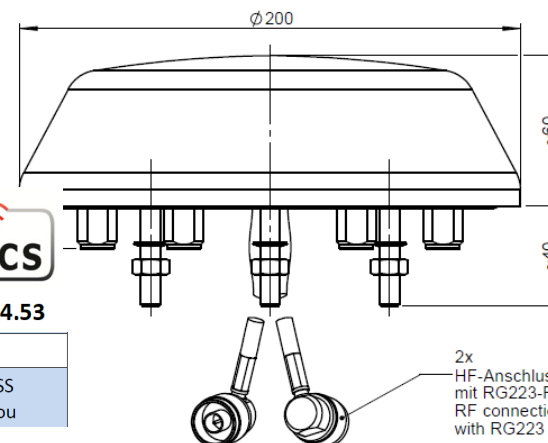
LTE 700 - GSM-R - GSM 1800 - UMTS - LTE 2600 (4x4 MIMO) - WLAN 2.4/5.8 (MIMO) - GPS - GLONASS- Galileo - BeiDou

RF-Port	a / b / c / d	e	f	g / h
Spectrum	GSM-R / GSM 1800 UMTS / LTE	WLAN / WiFi	WLAN / WiFi	GPS / GLONASS Galileo / BeiDou

- LTE (a) – najava stanica i praćenje vlaka
- LTE (b) – sustav mjerenja energije (EMS)
- LTE (c) – Wi-Fi
- LTE (d) – ne koristi se
- WiFi (e) – ne koristi se
- WiFi (f) – ne koristi se
- GPS (g) – najava stanica i praćenje vlaka
- GPS (h) – sustav mjerenja energije (EMS)



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BMV HŽ PP BEMV HŽ PP

OmPlecs®-TOP 200 AMR MF-04 -5- MIMO 4x4 LWG

- Bahnantenne / Train Antenna -

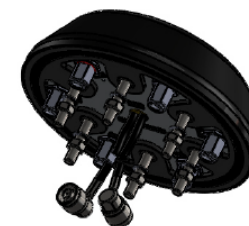
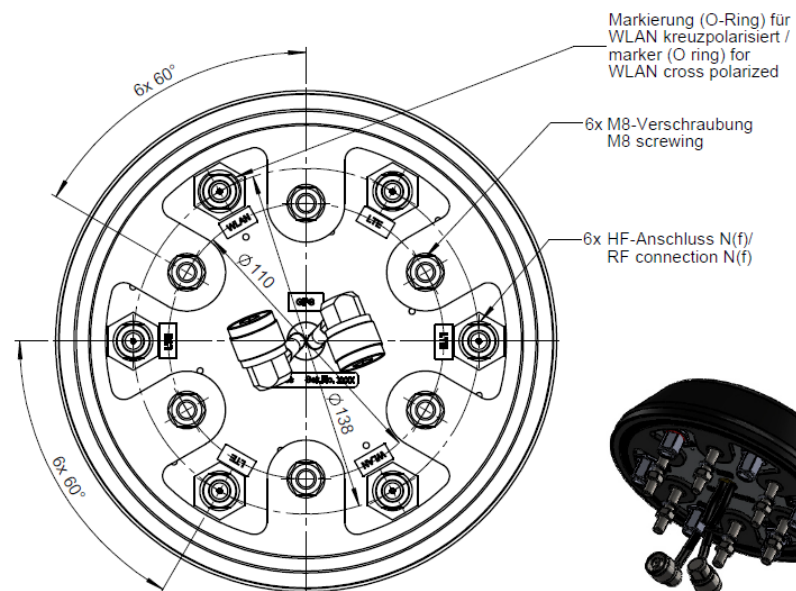
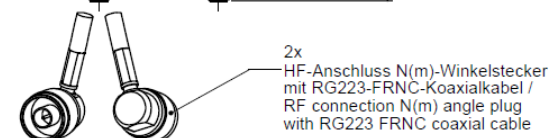
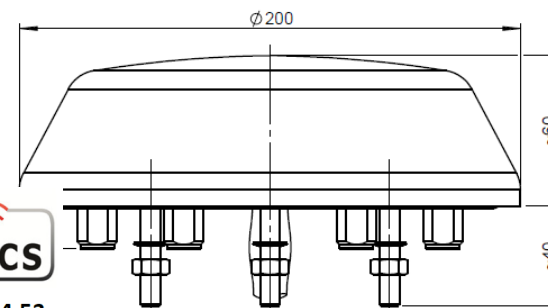
LTE 700 - GSM-R - GSM 1800 - UMTS - LTE 2600 (4x4 MIMO) - WLAN 2.4/5.8 (MIMO) - GPS - GLONASS- Galileo - BeiDou

RF-Port	a / b / c / d	e	f	g / h
Spectrum	GSM-R / GSM 1800 UMTS / LTE	WLAN / WiFi	WLAN / WiFi	GPS / GLONASS Galileo / BeiDou

- LTE (a) – najava stanica i praćenje vlaka
- LTE (b) – sustav mjerenja energije (EMS)
- LTE (c) – Wi-Fi
- LTE (c) – Wi-Fi
- WiFi (e) – komunikacija s punjačem i depoom
- WiFi (f) – ne koristi se
- GPS (g) – najava stanica i praćenje vlaka
- GPS (h) – sustav mjerenja energije (EMS)



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HVALA NA PAŽNJI !



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