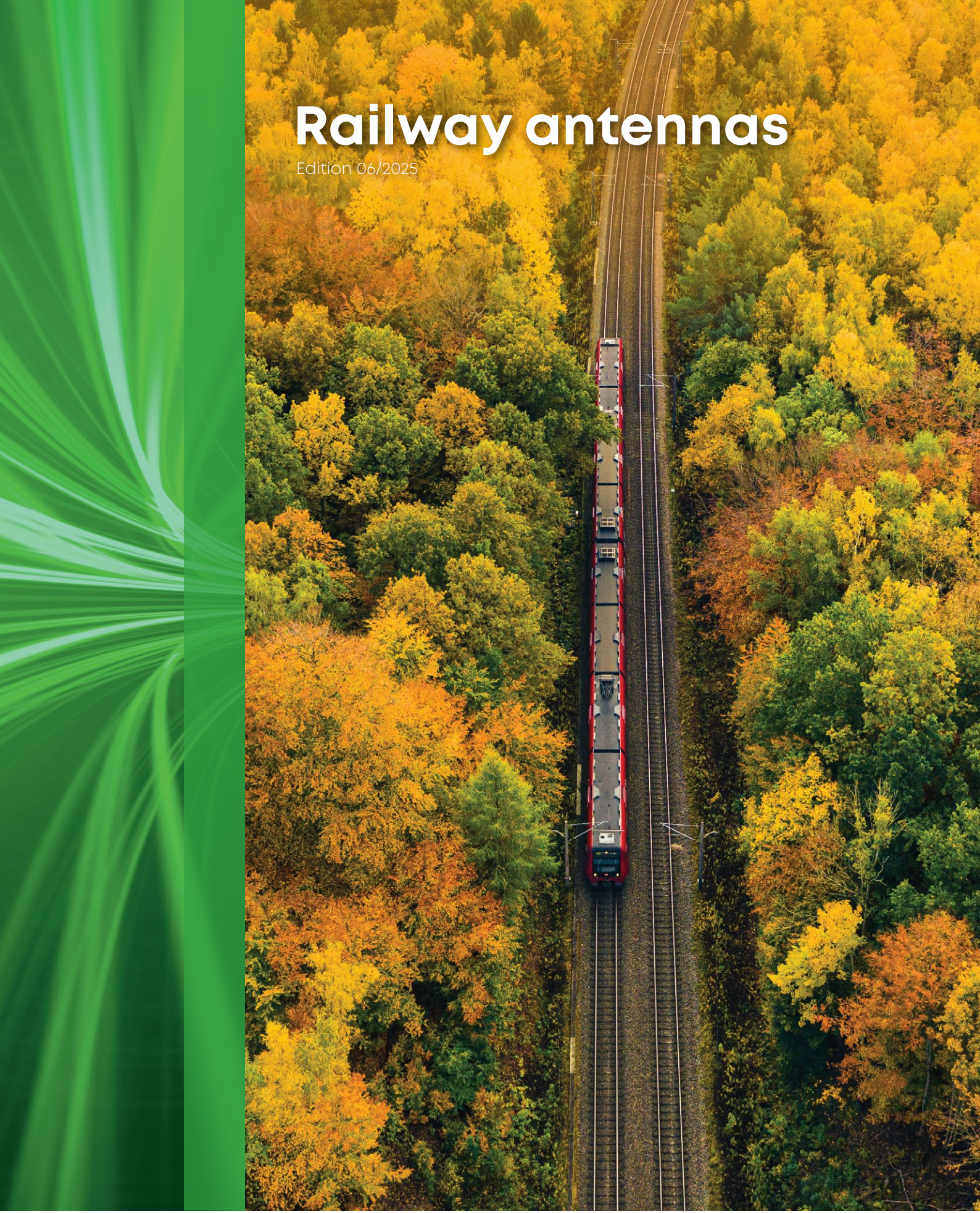




Railway antennas

Edition 06/2025

Railway rooftop antennas

HUBER+SUHNER offers the most comprehensive range of train rooftop antennas, supporting cellular, Wi-Fi, GSM-R, PTC, and multiband GNSS. Engineered for railway needs, they ensure high current and voltage protection.

SENCITY® Rail ACTIVE



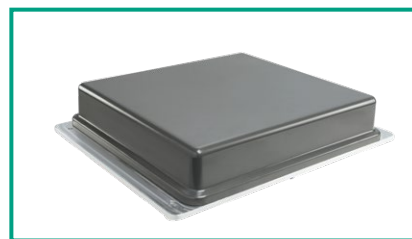
The first-of-its-kind omnidirectional, broadband rooftop antenna has an integrated connected compute module, cellular radios, Wi-Fi access point and GNSS receiver. It provides power and data via just one ethernet cable.

SENCITY® Rail



Omni-directional railway roof-top antenna family for all types of trains. It can be used as the onboard antenna in deployment for Railway communication train-to-ground systems.

SENCITY® Rail MIMO+



Dual-Polarised, Omni-directional Cellular 2x2 and 4x4 MIMO rooftop antennas are designed for wireless applications.

SENCITY® Rail MIMO



Omni-directional MIMO broadband railway rooftop antennas for all types of trains.

SENCITY® Rail low profile



Omni-directional broadband MIMO and SISO rooftop antennas for all types of trains. Ultra low profile design with a maximum height of only 40 mm.

SENCITY® Rail MULTI



Omni-directional broadband 4x4 MIMO rooftop antennas are designed for wireless applications to be used for train-to-ground systems.

Railway in-carriage antennas

HUBER+SUHNER offers a comprehensive portfolio of antennas for installation inside trains, covering all Wi-Fi bands, as well as cellular services. They are designed to meet the special requirements of railway applications including environmental and fire certifications.

SENCITY® OMNI-SR Slim



Compact omni-directional MIMO in-carriage antenna for Wi-Fi applications, used as the wireless interface in Wi-Fi communication systems such as Railway passenger Wi-Fi.

SENCITY® SPOT-SR



Compact directional railway in-carriage antenna family for all types of trains.

SENCITY® OMNI-SR Dome



Omni-directional SISO railway in-carriage antenna family for all types of trains.

SENCITY® OMNI-SR



Omni-directional MIMO railway in-carriage antenna family are suitable for all types of trains.

SENCITY® Rail ACTIVE



Omni-directional MIMO railway in-carriage antenna + access point suitable for all types of trains. Compact form factor allows easy deployment of Wi-Fi systems on trains, no RF cables required.

Railway trackside antennas

HUBER+SUHNER offers a comprehensive portfolio of antennas for trackside installation, covering all Wi-Fi bands and suitable for use in CBTC systems. They are designed to meet the special requirements of railway applications including environmental and fire certifications.

SENCITY® SPOT-S



Compact directional railway trackside antenna family for all types of trains.

SENCITY® SPOT-M



Directional high gain (14dBi) Wi-Fi band antenna for indoor and outdoor applications.

SENCITY® SPOT-L



Directional high gain (23dBi) Wi-Fi band antenna for indoor and outdoor applications.

SENCITY® SPOT-M YAGI

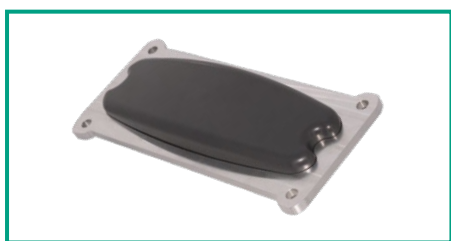


Directional high gain (19dBi) Wi-Fi antenna for railway trackside and tunnel applications.

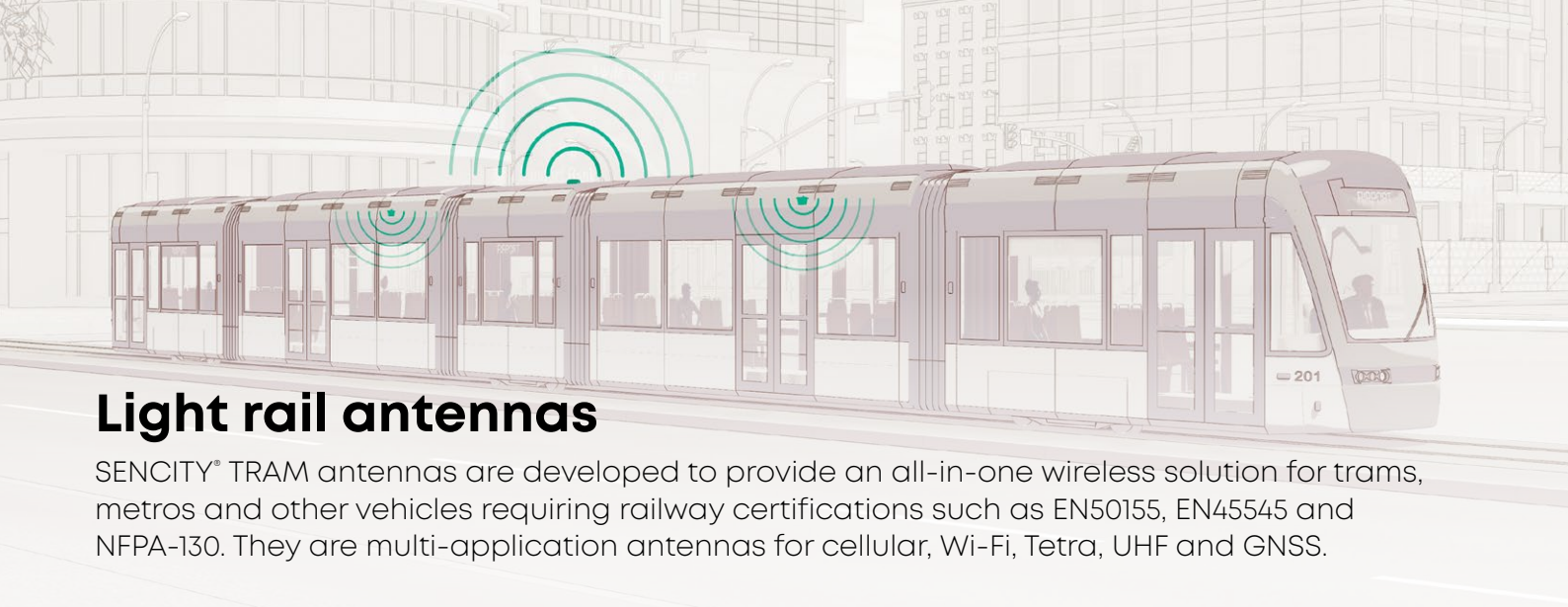
Railway inter-carriage antennas

HUBER+SUHNER has developed a specialized antenna designed to support wireless inter-carriage coupling with advanced antenna technology to prevent interference with other systems.

SENCITY® Bridge



Directional railway inter-carriage antennas for high-throughput data transmission between train carriages which require no manual configuration during train operation.



Light rail antennas

SENCITY® TRAM antennas are developed to provide an all-in-one wireless solution for trams, metros and other vehicles requiring railway certifications such as EN50155, EN45545 and NFPA-130. They are multi-application antennas for cellular, Wi-Fi, Tetra, UHF and GNSS.

SENCITY® Tram MIMO



Supports 2x2 MIMO systems by use of several radiating elements within one common housing or 4x4 MIMO systems by installing multiple antennas apart from each other for an optimised performance.

SENCITY® Tram



Offers different combinations of radiating elements efficiently designed to fit into a single compact housing.

SENCITY® Tram MULTI



Designed for 4x4 MIMO operation in cellular, 8x8 MIMO in Wi-Fi networks. It also offers a variety of combinations of up to 9 radiators within one housing and comes with an GNSS option for L1, L2, L5 operation.

SENCITY® Rail in-carriage antenna portfolio (see p. 3)



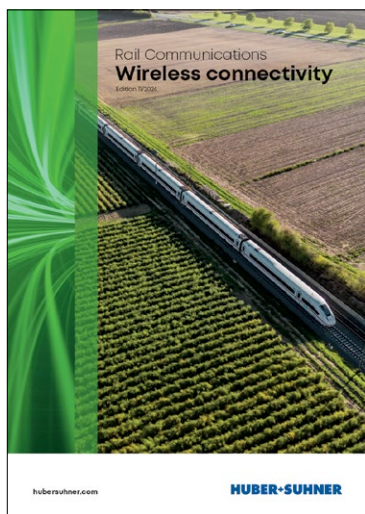
HUBER+SUHNER offers a comprehensive portfolio of antennas for installation inside trains, covering all Wi-Fi bands, as well as cellular services.

Accessories

	Product name	Product ID
	SENCITY® Rail MIMO+ antenna adaptor plate from HUBER+SUHNER footprint	9091.99.0287
	SENCITY® Rail MIMO+ Antenna Adaptor Plate from Kathrein / Low profile Footprint	9091.99.0291
	SENCITY® Rail aluminium mounting plate for MULTI antennas (full size)	9091.99.0263
	SENCITY® Rail steel mounting plate for MULTI antennas (full size)	9091.99.0264
	SENCITY® Rail aluminium mounting plate for MULTI antennas (half size)	9091.99.0269
	SENCITY® Rail steel mounting plate for MULTI antennas (half size)	9091.99.0270
	SENCITY® Low Noise Amplifier GNSS (GPS, GLONASS, BeiDou, Galileo)	86010142
	SENCITY® Rail M8 sealing washer kit	9091.99.0256
	SENCITY® Rail M10 Sealing Washer Kit	9091.99.0257
	SENCITY® Rail antenna conduit support kit	9091.99.0236

	Product name	Product ID
	SENCITY® Rail antenna grounding kit	9091.99.0235
	SENCITY® Rail flexible mounting plate for surface thickness of 0.5 – 12 mm	9091.99.0261
	SENCITY® Rail antenna adaptor plate from Kathrein footprint	9091.99.0252
	Bracket for SENCITY® SPOT-S antenna	9091.99.0267
	Bracket for SENCITY® SPOT-M antenna	9091.99.0201
	Bracket for SENCITY® SPOT-L antenna	9091.99.0183
	TETRA Stick antenna 380 – 430 MHz	9091.99.0247
	TETRA Stick antenna 450 – 470 MHz	9091.99.0248
	TETRA Stick antenna 410 – 430 MHz	9091.99.0254
	FM radio stick antenna 88 – 108 MHz	9091.99.0246
	Metal ground plane foil 0.6x0.6m	9091.99.0250

Download the Rail Communications
Wireless connectivity catalogue



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HUBER+SUHNER is certified to ISO 9001, ISO 14001, ISO 45001, EN/AS 9100, IATF 16949 and ISO/TS 22163-IRIS.

Waiver

The facts and figures provided herein are for information only and do not represent any warranty of any kind.