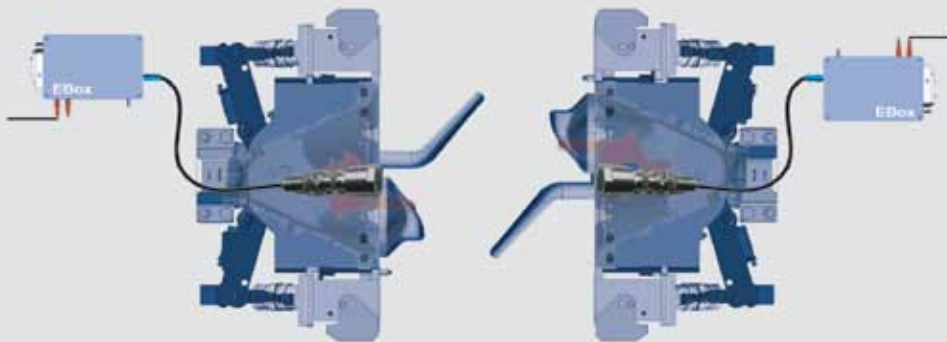


Wireless data transmission RadiConn

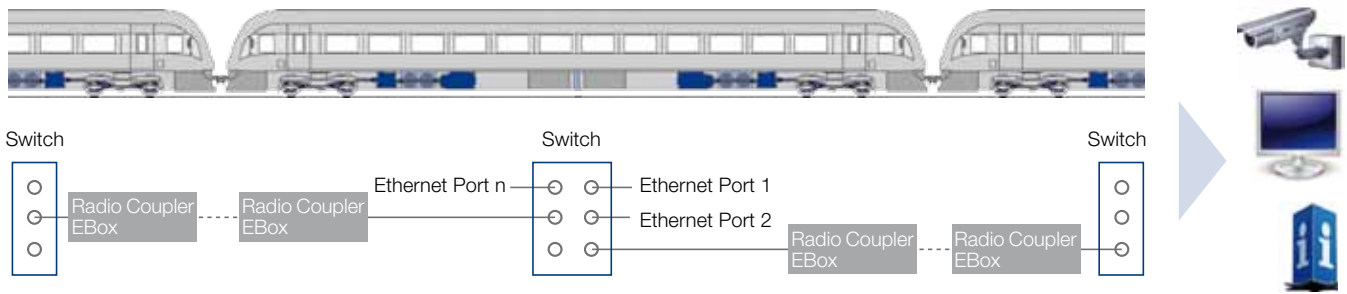


The RadiConn system allows wireless data transmission via Ethernet using radio coupler units. Its special design makes the RadiConn resistant against dirt and irregularities caused by the coupler lock play, while retaining its high transmission quality. Different mounting possibilities – even when no electric head is available – predestine the system for retrofitting existing solutions. It is mainly used for infotainment purposes such as passenger information systems and CCTV.

Benefits

- + Wireless data transmission
 - + Multiple mounting possibilities
 - + Robust, maintenance-free design
 - + Suitable for retrofitting existing solutions
 - + Plug'n Play (transparent bridge)
 - + Fast Ethernet 100Base-TX
 - + Field tested
 - + Dirt-resistant
 - + Tolerates position changes caused by the coupler lock play
 - + Redundant layout possible
-

Infotainment as retrofit solution



Electrical characteristics

Operating voltage	16.8 – 30 V DC	
Current drain	300 mA	
Interfaces, plug-connections	Ethernet	M12 (D-coding)
	Medium	N-standard, coaxial (grounded)
	Diagnostics	M12 (D-coding)
	Voltage	HAN HPR
Grounding and insulating characteristics	I/O	HAN HPR
	Ethernet	Electrically isolated
	Medium	Electrically isolated
	I/O interfaces	Mandatory
Free		3 x input, 4 x output
Cable lengths	Ethernet	Max. 100 m
	Medium	Max. 10 m

Network characteristics

Latency	1 ms	
Confirmed data rate	WinXP	53 Mbit/s (UDP)
	Linux Open Suse 11.0	82 Mbit/s (UDP)
Signal recovery ("repeater")	Yes	
Max. segment length	200 m	
Configuration requirements	Plug'n Play	

Mechanical characteristics

Place of installation (radio coupler)	Electric head or mechanical coupler head
Place of installation (electronics)	Train/train front end
Dimensions (radio coupler)	l: 128 mm; Ø 20 mm
Dimensions (electronics)	l: 280 mm; w: 180 mm
Material (radio coupler)	Stainless steel, PU sealed
Material (electronics)	Diecast aluminum casing
Weight (radio coupler)	220 g
Weight (electronics)	3.6 kg
Operating distance (radio coupler)	Max. 10 mm
Tolerated coupler lock play (axial + radial)	± 5 mm
Coupling cycles	Unlimited

Environmental characteristics

Temperature range	- 40 up to +50 °C
Storage temperature	- 40 up to +85 °C
IP protection (radio coupler)	IP68
IP protection (electronics)	IP65

Conformity

Certifications	EN 50155, CE mark
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Miscellaneous

Diagnostic interface	Web server
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