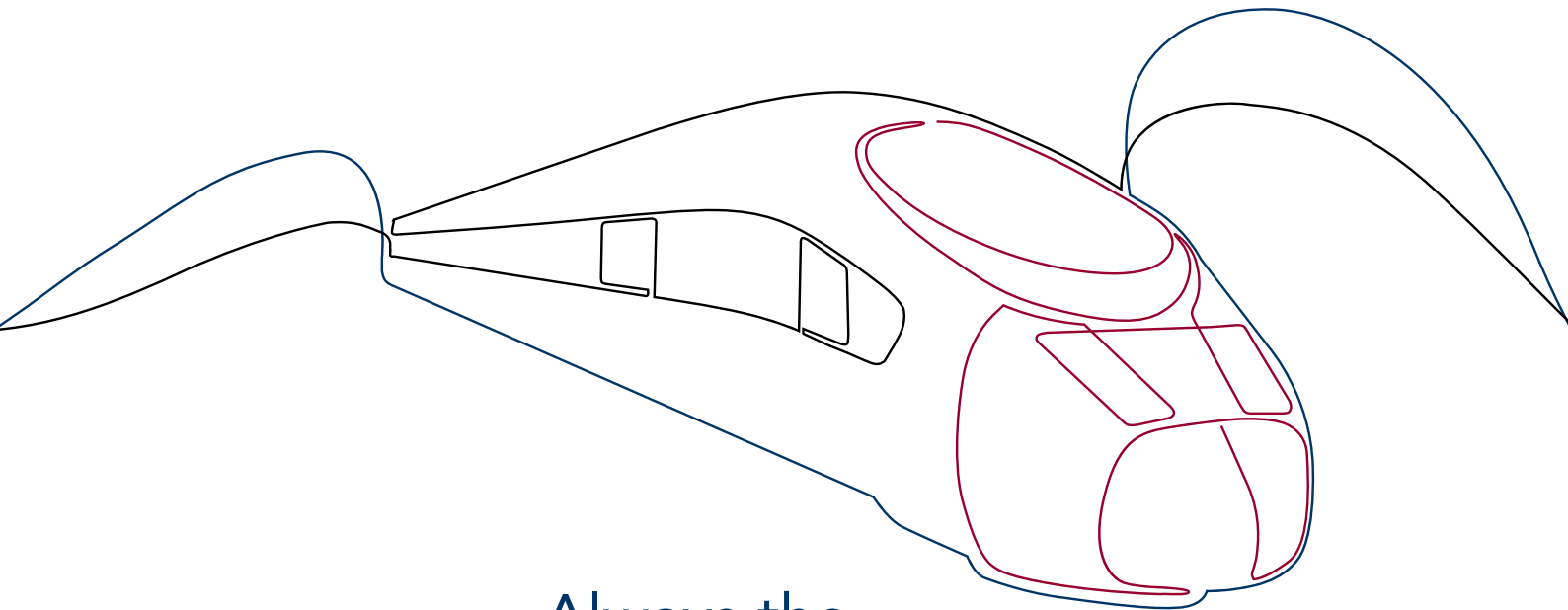


ETHERNET UPGRADE SOLUTIONS



Always the
right connection



Quality Standard: All products are subject to an extensive quality test in the final inspection phase. Of course, we are certified according to current industry-specific standards.

ETHERNET UPGRADE SOLUTIONS

era-transceiver[®] FIBRE-EXTENSION

Product info

The *era-transceiver*[®] fibre-extension is the solution for space problems in the electrical coupler. The fibre-extension allows flexible positioning within the contact block.

For retrofitting, the *era-transceiver*[®] fibre-extension offers the advantage that existing contact holes can be used. The solution is based on *era-transceiver*[®]-technologie.



era-transceiver[®] fibre-extension includes:

- *era-transceiver*[®]
- Fiber optic cable

Requirements for the *era-transceiver*[®] fibre-extension:

- This solution requires only two fiber contacts in the contact block, which take up as much space as a regular male contact.
- The total number of optical contacts is open and depends on customer requirements and the possible number of optional contact points in the respective couplers
- For retrofitting: existing drilled holes in the contact block
- Increased security against access and manipulation from the outside due to signals that cannot be manipulated (EMC non-critical)

Your advantage

- Contactless data transmission of Ethernet signals
- Finds place everywhere – suitable for all electrical couplers
- Two contacts operate in full duplex mode and send and receive data simultaneously
- The incoming electrical Ethernet signal is converted into an optical signal and back again
→ insensitive to relative movements and EMC
- Easy to clean, no mechanical wear
→ thus longer service life and reduced life cycle costs
- Data transfer rates of 100 Mbit/s or 1 Gbit/s
- Fast and especially contemporary upgrade of older models of rail vehicles

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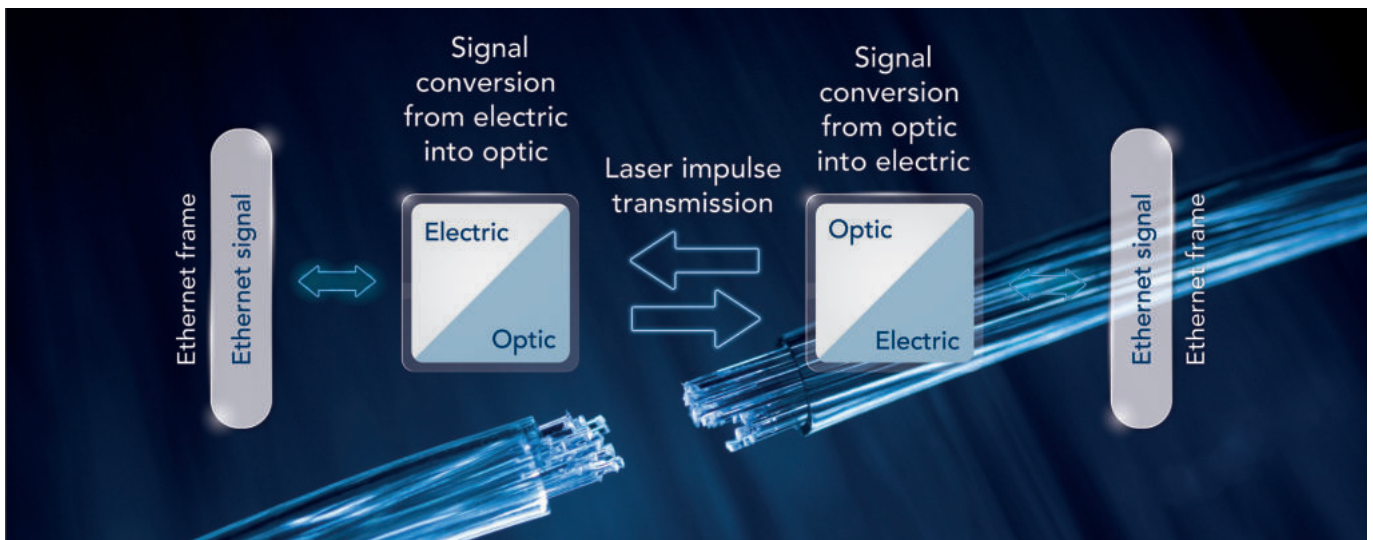
era-transceiver®

DATA PULSES WITHOUT WEAR

Product info

The era-transceiver® is a unique contactless system for high-speed data transmission with 100% galvanic separation, which means there is no mechanical wear on the contact itself. Therefore, you benefit from a longer operating life and cost savings over the entire product life cycle.

The era-transceiver® is an optimal data transmission solution for both the initial equipment of new vehicles and for retrofitting (Plug & Play ETHERNET, ETHERNET-UPGRADE-SOLUTION) of existing fleets and older rail vehicle models.



Transmission principle era-transceiver®

The incoming electrical Ethernet signal is converted into an optical signal. The optical signal is received on the opposite side and converted back into an electrical signal. The level and timing are corrected in the process (data clock recovery). Galvanic separation is achieved via the interface.

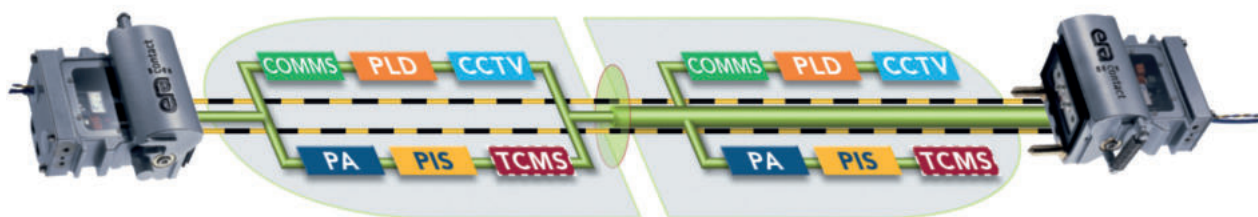
Optical signals are free of EMC interference, potential shifts and insensitive to relative movements. The transmission link operates in full duplex mode, i.e. simultaneous sending and reception of data is guaranteed.

ETHERNET UPGRADE SOLUTIONS

era-transceiver® PRODUCT FAMILY

era-contact produces the 100 MBit/s and 1000 MBit/s variants in series.

Data rate	100 MBit/s	1000 MBit/s
Data interface	RJ45 M12 D-coded	M12, X-coded, SC Multimode
Cable requirement	min. CAT 5	min. CAT 7
Power supply	24... 48 V DC	24 ... 48 V DC, 110 DC
Power consumption in general	< 5 W	< 5 W
Operating temperature range	RJ45: -25 ... +85 °C M12: -40... +85 °C	-40 ... +85 °C
Bit error rate	< 10 ⁻¹²	< 10 ⁻¹²



- PA Public Address
- PIS Passenger Information System
- CCTV Closed Circuit Television
- COMM Communications Systems
- PLD Passenger Load Determination
- TCMS Train Control Management System



MORE BENEFITS FOR YOU:

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- Comprehensive service wherever you are in the world
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- International presence
- On-site engineering service – from prototyping to after-sales
- Original manufacturer
- A team just for you

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www.aichele-group.com
www.era-contact.com
www.streicherplast.de

era-contact GmbH Germany
Gewerbestrasse 44
75015 Bretten-Gölshausen
Deutschland / Germany
Phone +49 (0)72 52 - 971 0
info.germany@era-contact.de

era-contact Tunisia S.A.R.L.
Hriza
7026 El Azib, Bizerte
Tunesien / Tunisia
Phone +216 72 - 45 10 10
info.tunisia@era-contact.de

era-contact USA, LLC
1475 Smith Grove Road
Liberty, SC 29657
USA
Phone +1 (864) 777-6060
info.usa@era-contact.com

era-contact GmbH Germany
Einsteinstraße 1
71083 Herrenberg
Deutschland / Germany
Phone +49 (0)72 52 - 971 0
info.germany@era-contact.de

era-contact (Suzhou) Co., Ltd.
Building P,
No. 9 Chang Yang Street,
Suzhou Industrial Park
Jiangsu, 215024, P.R. China
Phone +86 512 - 6299 1800
info.china@era-ct.com

era-contact Turkey
San. ve Tic. Ltd. Şti.
Çerkeşli OSB Mah.
İmes 9. Cad. No:31
41455 Dilovası/Kocaeli
Türkei / Turkey
Phone +90 532 504 38 09
info.turkey@era-contact.com.tr

streicherplast
GmbH + Co. KG
Friedhofstrasse 4
78588 Denkingen
Deutschland / Germany
Phone +49 (0)74 24 98 17-0
info@streicherplast.de