

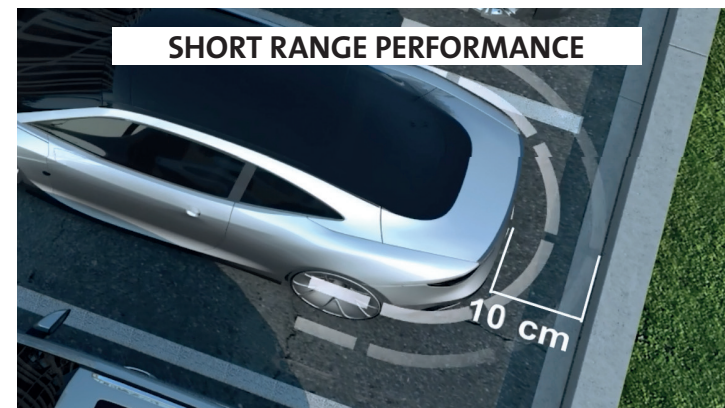
Million-times proven
reliability and quality

Key features

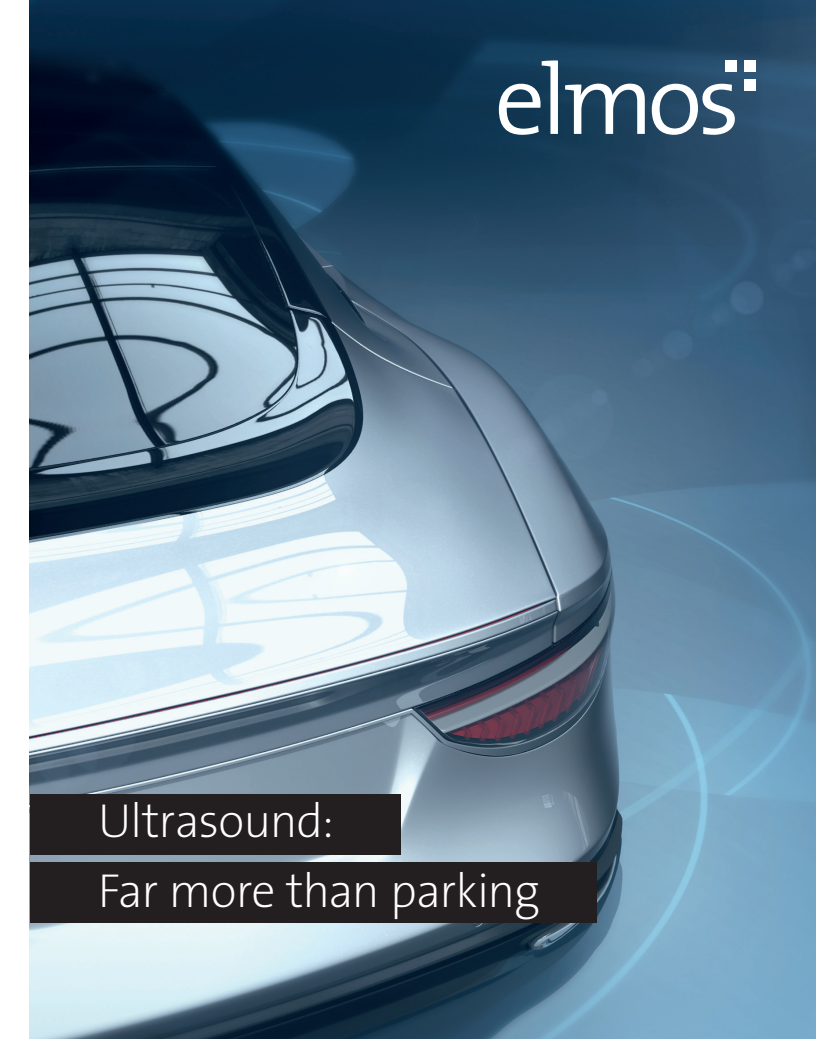
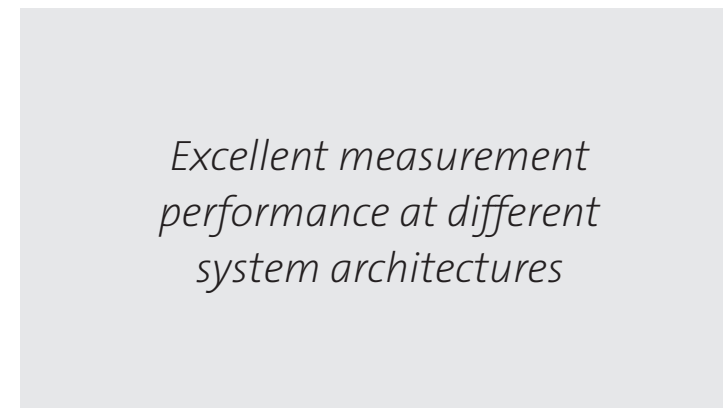
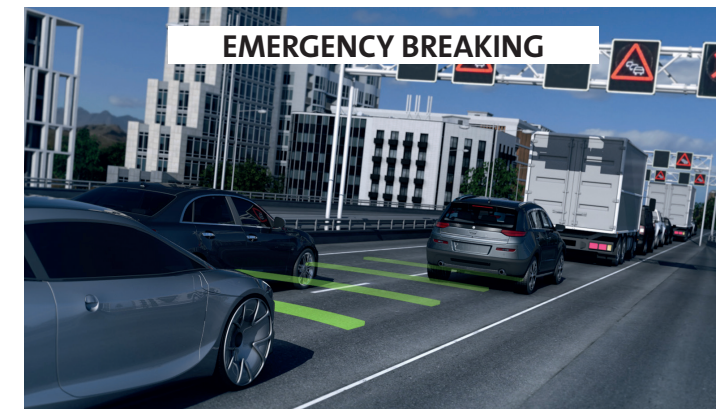
- Outstanding ultrasound measurement performance
- High sensor robustness
- Excellent sensor and IC diagnostics
- Flexible controller solutions
- Fast communication interfaces

Worldwide #1 IC supplier for Ultrasonic ICs

- More than 850 million ICs are in the field
- More than 25 years of experience
- 30 realized IC projects
- 6 different and flexible ASSP families
- Easy to use demonstrators and evaluation kits for all devices



From parking assistance to near field surveillance.
We are ready for the future!



GET YOUR ELMOS ULTRASONIC IC

Elmos Support

Elmos Semiconductor AG | Headquarters

Phone: +49 (0) 231 / 75 49-100 | sales-germany@elmos.com

Elmos NA Inc.

Phone: +1 (0) 248 / 8 65 32 00 | sales-usa@elmos.com

Elmos Semiconductor Technology (Shanghai) Co., Ltd.

Phone: +86 (0) 21 / 6219 7502 | sales-china@elmos.com

Elmos Korea Co., Ltd.

Phone: +82 (0) 31 / 7 14 11 31 | sales-korea@elmos.com

Elmos Japan K.K.

Phone: +81 3 / 3451-7101 | sales-japan@elmos.com

Elmos Semiconductor Singapore Pte Ltd.

Phone: +65 (0) 6908 / 12 61 | sales-singapore@elmos.com

www.elmos.com

Elmos Semiconductor AG (hereinafter: "Elmos") reserves the right to make changes to the products contained in this flyer without prior notice. This flyer does not constitute an offer to sell any products. Elmos does not assume any responsibility (neither liability nor warranty) for any inaccuracy or incompleteness of the information provided. Elmos does not assume any liability regarding damages caused by the use of any information provided, including any kind of information that is incomplete or incorrect, unless (and only to the extent) statutory law requires Elmos mandatorily to assume liability (e.g. in cases of intent). Circuit diagrams may contain components not being manufactured by Elmos, which are included as means of illustrating typical applications. Reproduction of this flyer in part or whole, without the prior written consent of Elmos, is expressly prohibited.
© Elmos Semiconductor AG, 2018.

Elmos Ultrasonic advantages

- Best short range performance
- More standardization
- Sensor coding
- Advanced diagnosis
- Highest communication bandwidth
- Higher flexibility
- Excellent long-range performance
- Smaller package / sensor housing
- ISO26262
- Lower current consumption
- Object classification
- Higher accuracy
- Shortest latency
- Highest robustness
- New field detection

Elmos "Direct Drive" advantages

- Full substitution of the transformer and the electrolyte capacitor
- Reduction of required assembly pick and place handling
- Reduction of required PCB area and sensor housing
- Reduction of PCB layers (2 layer PCB possible, instead of 4 layers)

IO pt-to-pt Interface

- Proprietary interface
- Optimized state machine
- Most signal conditioning in Park-ECU

lin BUS (or pt-to-pt) Interface

- LIN Bus-System, less wiring
- Flexible controller solution
- Signal pre-conditioning in sensor
- Potentially without Park-ECU or ECU-less

Sensor-IC
Transformer Driven



E524.02/03

Transformer Drive 1st Gen.
with IO Interface
(20cm – 400cm)



E524.08/09

Transformer Drive 2nd Gen.
with advanced IO Interface
(10cm – 600cm)



E524.14/24

Smart Transformer Drive 1st Gen.
with LIN Interface and 8bit Controller
(FLASH and ROM versions)
(15cm – 500cm)

Sensor-IC
Direct Driven



E524.05/06/07

Direct Drive 1st Gen.
with IO Interface
(25cm – 250cm)



E524.32/33/34/35

Direct Drive 2nd Gen.
with advanced IO Interface
(10cm – 400cm)



E524.16

Smart Direct Drive 1st Gen.
with LIN Interface and 8bit Controller
(10cm – 300cm)

Master-IC



E521.50

Master IC
4 LIN Transceiver for
LIN and IO Systems