



IC SOLUTIONS FOR AUTOMOTIVE LED LIGHTING

World Leader in Ambient Light Control

- 250+ million LIN RGB Controller ICs in the field
- Auto-Addressing easing module integration
- All color homogeneous light output across temperatures
- Flicker free dynamic effects

World Leader in Dynamic Rear Light Animations

- Highest flexibility for LED control (in dynamic animations)
- Brightest output and best-in-class thermal management
- Constant light intensity at high temperatures
- Interface scalability & diagnosis for Functional Safety
- Functional Safety ISO 26262 ASIL-B compliant

LED Lighting Product Portfolio

Interior LED lighting	Exterior LED lighting	
	3 ch. Drivers	16 ch. Drivers
E521.36 RGB LED Driver with LIN interface	E522.80-83 Linear LED Controllers Max. 150mA/ch. I_{max} setting per ch. Advanced Power Management	E522.48/49 Max. 100mA/ch Localized RL systems I ² C bus / UART over diff. bus comm. ISO26262 ASIL-B
E521.38 12 channel RGB LED Driver for dynamic applications	E522.84-86 Linear LED Controller Max. 60mA/ch. Global I_{max} setting Standby/Sleep mode	E522.59 Max. 100mA/ch Localized RL systems UART over diff. bus comm. (1Mb/s) ISO26262 ASIL-B
E521.39 RGBW LED Driver with LIN Interface	E522.90-93 Linear LED Controller Max. 55mA/ch. I_{max} setting per ch. Advanced Power Management	E522.88 Max. 100mA/ch Stand Alone localized RL systems prog. light patterns ISO 26262 ASIL-B
	E522.60 Linear LED Controller Max. 200mA/ch.Global I_{max} setting Advanced Power Management High adjustment Flexibility	E522.94 Max. 100mA/ch Semi Centralized RL sys. UART over CAN FD bus comm. (2Mb/s) ISO 26262 ASIL-B
		E522.95 Max. 100mA/ch Centralized RL systems over CAN FD bus comm. (2Mb/s) ISO 26262 ASIL-B



Elmos Semiconductor SE

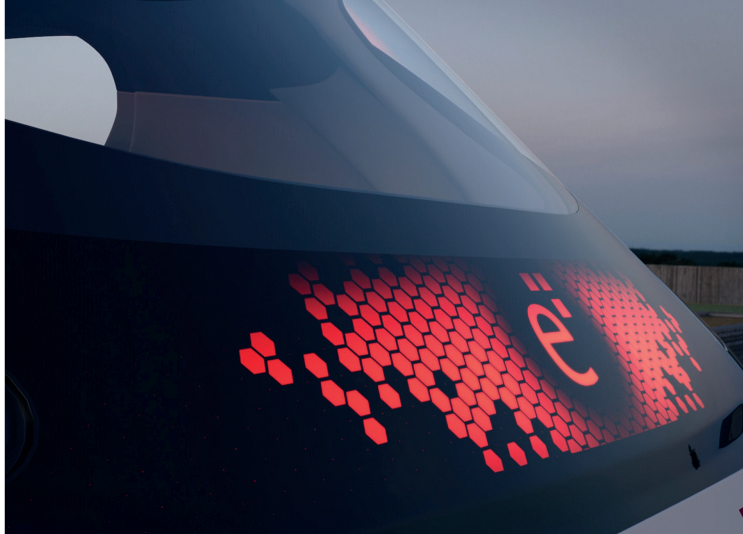
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elmos[®]

LED driver solutions for

Ambient and Rear Light



Offerings

LIN RGB LED Drivers

Delivering enhanced cockpit ambience and user wellbeing experience through interior lighting

Static LED Drivers

Delivering high brightness for driving exterior LED lighting using advanced thermal power management

Multi Channel LED Drivers

Delivering dynamic animations through individual LED control for all types of rear lighting architectures

Elmos Next Gen LED Drivers

Multi channel RGB LED Drivers for dynamic interior lighting solutions for comfort, wellbeing and safety

Advantages

World leader in ambient light control

- LIN RGB Drivers
- Homogeneous light output across temperature
- Flicker free dynamic effects
- Auto-Addressing easing module integration

World leader in dynamic rear light animations

- Multichannel LED Drivers
- Constant light intensity at high temperatures
- Advanced thermal power management
- All architecture interface scalability
- Developed according to ISO26262 ASIL-B

Application Examples

- Floor light
- Roof light
- Reading light
- Door panels
- Cup-holders
- Dashboard surfaces
- Side mirror warning
- Pedestrian warning
- Cyclist warning
- Rear light
- Break light
- CHMSL
- Turn indicator light
- Reverse light
- Fog light
- DRL
- Front light grille

