



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



**Elmos Semiconductor SE**

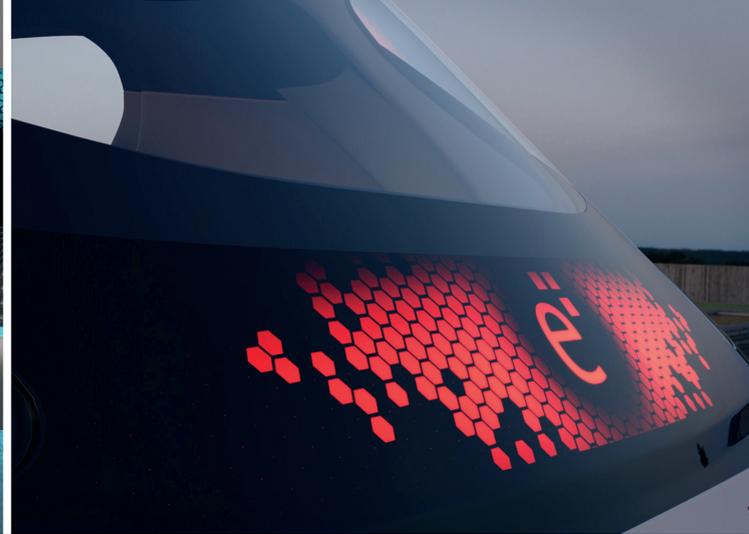
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elmos<sup>®</sup>



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

