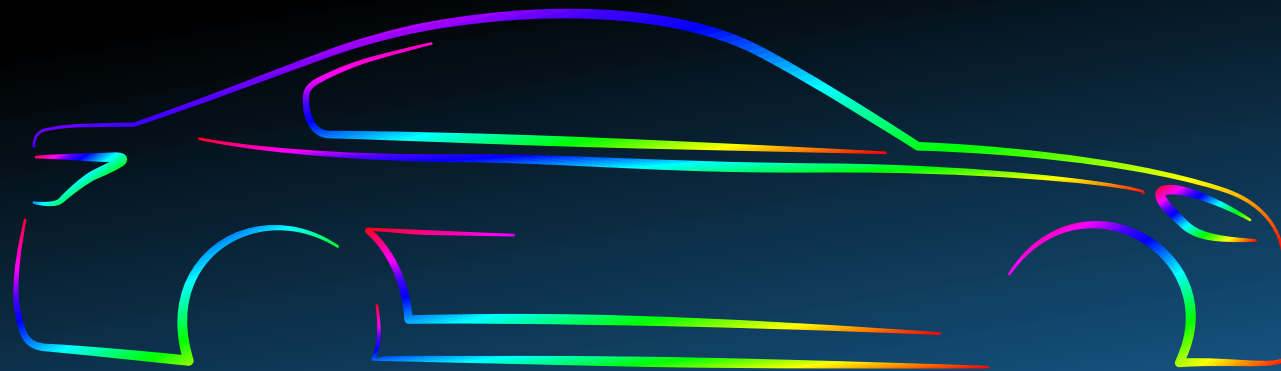
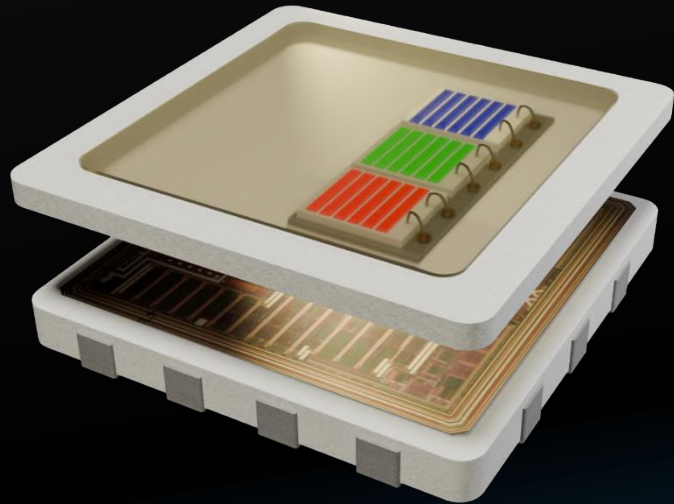


# **SiELED<sup>®</sup> - The De-Facto Industry Standard**

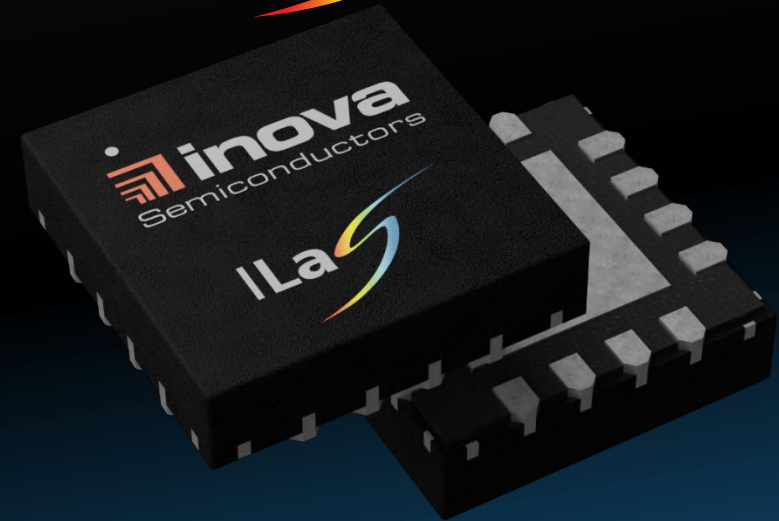
**Most Adopted, Most Cost-Efficient Solution  
for Software-defined Lighting**



CONNECTIVITY FOR AUTOMOTIVE LIGHT AND VISION



## The Smart LED Technology

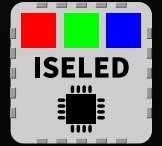
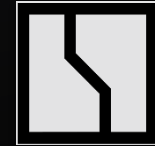


## The Light and Sensor Network

The ISELED Ecosystem with a multitude of devices offers total freedom of choice and reduces supply chain risks.

With contributions from Analog Devices, Microchip, NXP, Renesas, Autochips, YTMicro, Bluewhale, Zhixin, CoAsia, Dominant, Everlight, Ennostar, Everlight, Lite-On, and Harvatek

# ISELED – in production

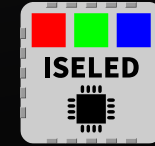


## Car Models:

- Honqi H9 (2020)
- Zeekr 001 (2021)
- Leapmotor C01 (2022)
- Lotus Eletre (2023)  
Emeya (2024)
- NIO ET9 (2025)



# 2<sup>nd</sup> generation SDL with ISELED and ILaS<sup>®</sup>



## KIA EV3 (QV1)

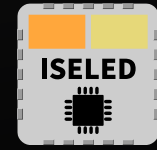
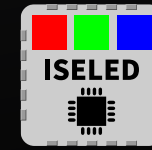
- Entry level EV
- Q4 2025
- <30k USD



## KIA Seltos (SP3i)

- Entry level SUV (for India)
- Q4 2025
- Combustion engine

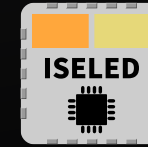
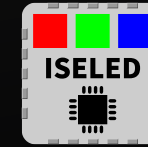
# ISELED – in series production



- BMW iX (2022)
- BMW I7 Series (2022)
- BMW XM (2022)
- Rolls Royce Spectre (2022)
- BMW 5 Series (2023)
- BMW X3/X4 (2024)
- BMW 1 Series (2024)
- BMW X5/X6/X7 (2024)
- Mini (Cooper, Aceman ..) (2024)
- BMW 2 Series (2025)



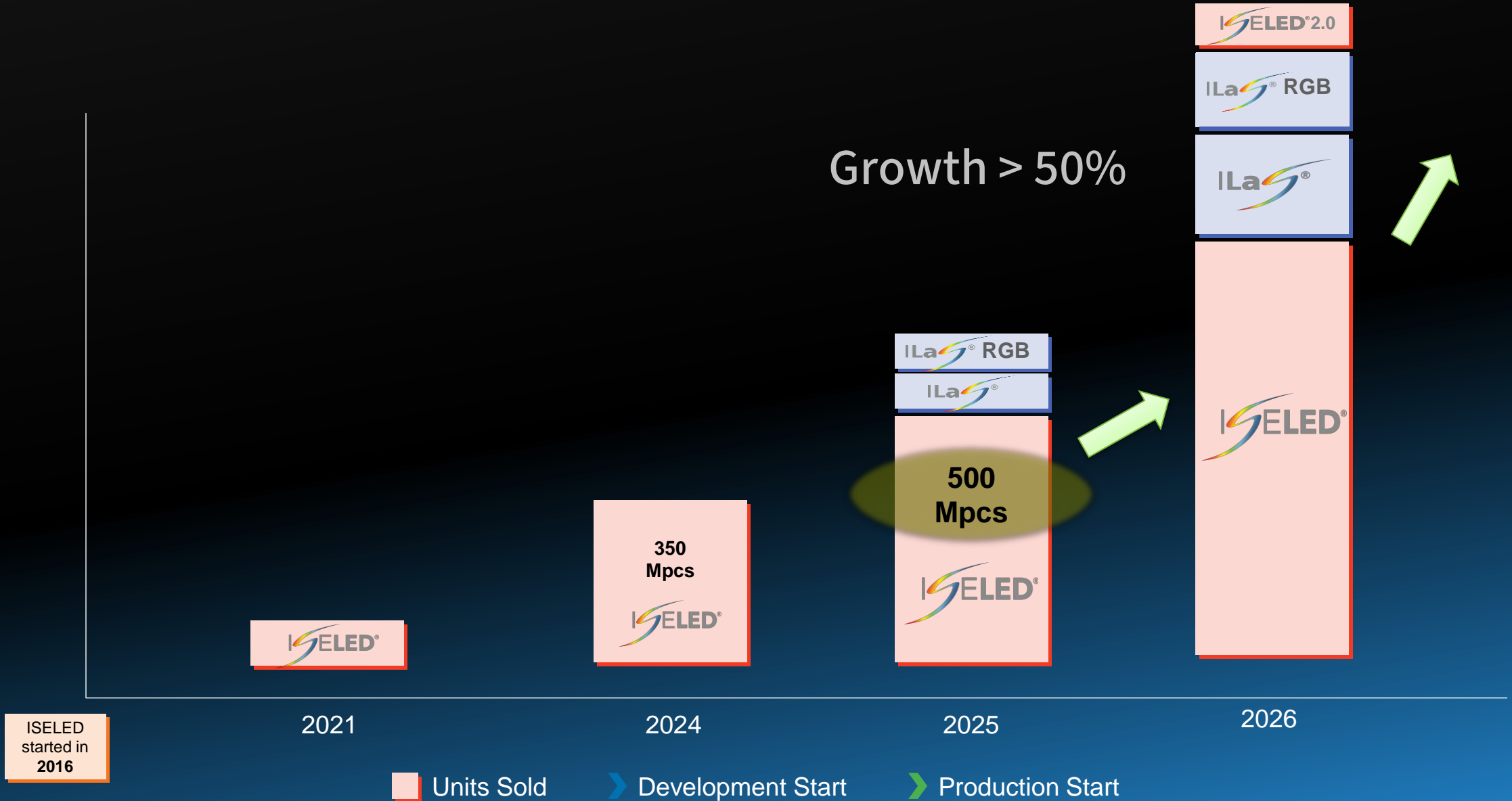
# BMW – “Neue Klasse” – 2025 2<sup>nd</sup> generation of SDL



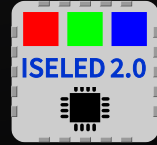
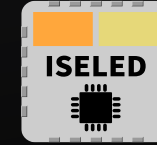
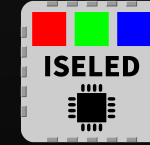
## **iX3 full interior including Panoramic iDrive**

- with ISELED, ILaS, ILaS RGB
- with APIX3,
- Q4 2025

# ISELED Success Story



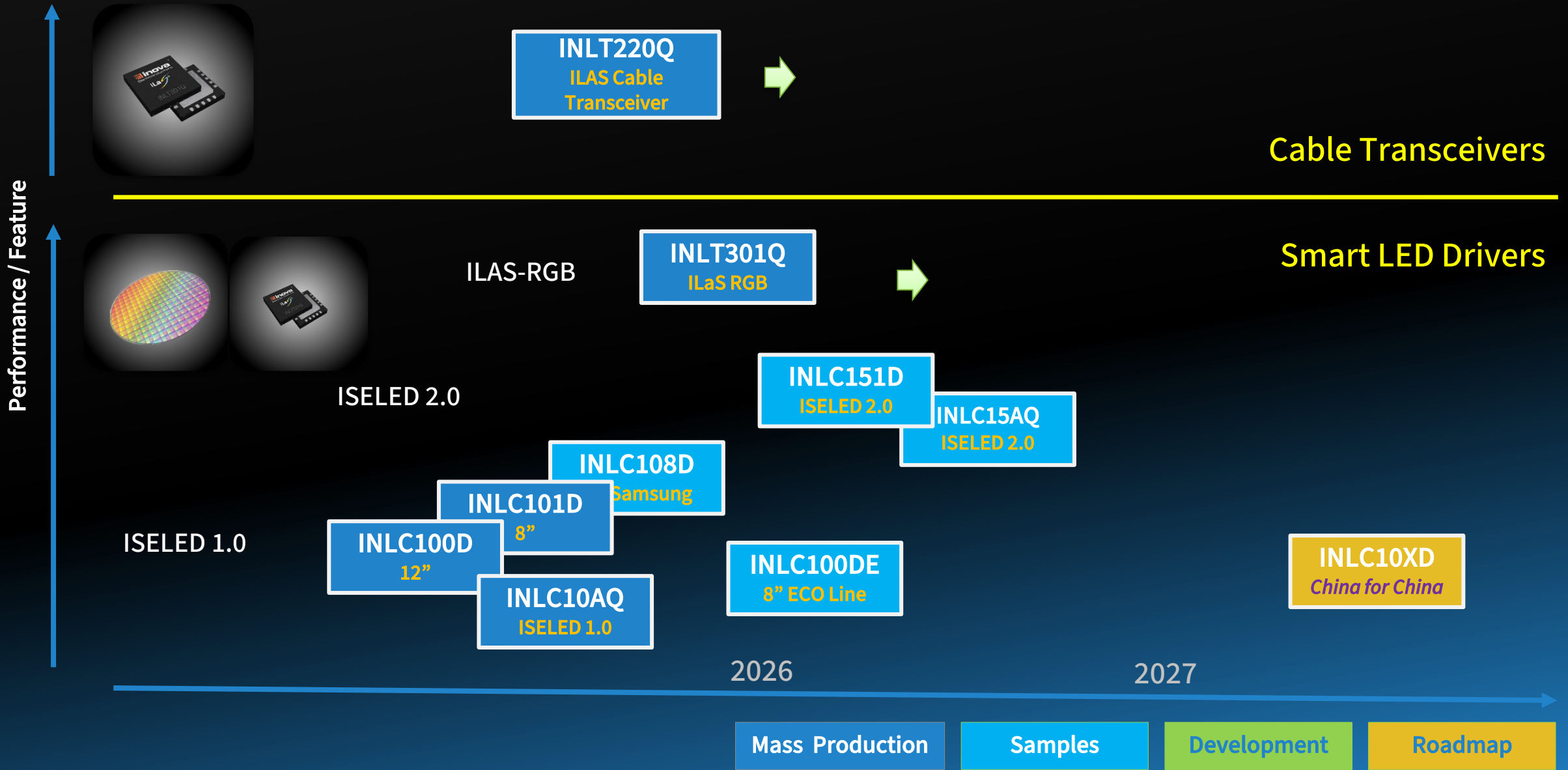
# ISELED & ILaS<sup>®</sup> Calibrated Smart LEDs



Manufacturer	ISELED Gen.	Family	Type	Product	Calibr.	Intensity			
						Day	Night		
<b>Dominant</b>	1.0	seddLED3.5	Power RGB	<a href="#">A3E-THG-60-1</a>	D65	19100		mcd	
	1.0	seddLED3.0	RGB	<a href="#">A3A-MHG-2000-1</a>	D65	2000		mcd	
	1.0	seddLED3.0	RGB	<a href="#">A3A-FKG-1800-1</a>	D65	1800		mcd	
	1.0	seddLED3.0	RGB	<a href="#">A3A-FKG-1400-1</a>	D65	1400		mcd	
	1.0	seddLED3.0	RGB	<a href="#">A3A-FKG-RGB-1</a>	Gamut	2250		mcd	
	ILaS-RGB	seddLED3.6	RGB	<a href="#">A3J-FHG</a>	D65	1400		mcd	
	1.0	seddLED2.0	WW/CW	<a href="#">A2F-EHG</a>	---	5000		mcd	
<b>Everlight</b>	1.0	SmartLED	RGB	<a href="#">EL3534-RGBISE...</a>	D65	2000		mcd	
	1.0	SmartLED	RGB	<a href="#">EL3534-RGBISE0391L-AM</a>	D65	1400		mcd	
	2.0	SmartLED	Power RGB	<a href="#">EL3628-RGBISE...</a>	D65	20000		mcd	
	ILaS-RGB	SmartLED	RGB	<a href="#">ELxxxx</a>	D65			mcd	
<b>Ennostar</b>	1.0	SmartLED	RGB	<a href="#">i3633--PC36X01</a>	D65	1400		mcd	
	1.0	SmartLED	RGB	<a href="#">i3633--PC36X01 V0/V2</a>	D65	1800		mcd	
	1.0	SmartLED	RGB	<a href="#">i3638--PC36X01 V0/V2</a>	D65	1800		mcd	
	2.0	SmartLED	RGB	<a href="#">Interior i3633 (PC36)</a>	D65	1800		mcd	
	Concept	2.0	SmartLED	RGB	<a href="#">Interior/ Exterior Gen2</a>	D65	4000	800	mcd
	Concept	2.0	SmartLED		Mono or Dual colors				mcd
	ILaS-RGB	SmartLED	RGB	<a href="#">i4565—PO45X01.1</a>	D65			mcd	
<b>Coasia</b>	1.0	Smart RGB	RGB	<a href="#">WS-L3138-WRGB-IC</a>	D65	1385		mcd	
	Concept	ILaS-RGB	Smart RGB	RGB		D65		mcd	
	Concept	2.0	Smart RGB	RGB		D65		mcd	
<b>Lite-ON</b>	1.0	smart IC LED	RGB	<a href="#">ALED LTSA-E35BCEGBW</a>	D65	1800		mcd	
	1.0	smart IC LED	RGB	<a href="#">ALED LTSA-E35BCEGBW</a>	D65	1590		mcd	
	1.0	smart IC LED	RGB	<a href="#">ALED LTSA-E30B</a>	D65	2205		mcd	
	1.0	smart IC LED	Power RGB	<a href="#">ALED LTSA-E60B</a>	D65	19850		mcd	
	ILaS-RGB	smart IC LED	Power RGB	<a href="#">LTSA-H64B</a>	D65	19850		mcd	
	ILaS-RGB	smart IC LED	RGB	<a href="#">LTSA-M64B</a>	D65	2200		mcd	
	Concept	2.0	smart IC LED	RGB	<a href="#">E32B</a>	D65	2320		mcd
<b>Harvatek</b>	1.0	Chip LED	RGB	<a href="#">Q3413RGB</a>	D65	2475		mcd	
<b>Brightek</b>	1.0	iCled	RGB	<a href="#">N0M61S01IC</a>	D65	1400		mcd	

30+ Products available | 8+ LED Manufacturers | wide performance range 1400-20000mcd

# ISELED Smart LED Drivers & ILaS Transceivers



# ISELED Network for any E/E architecture

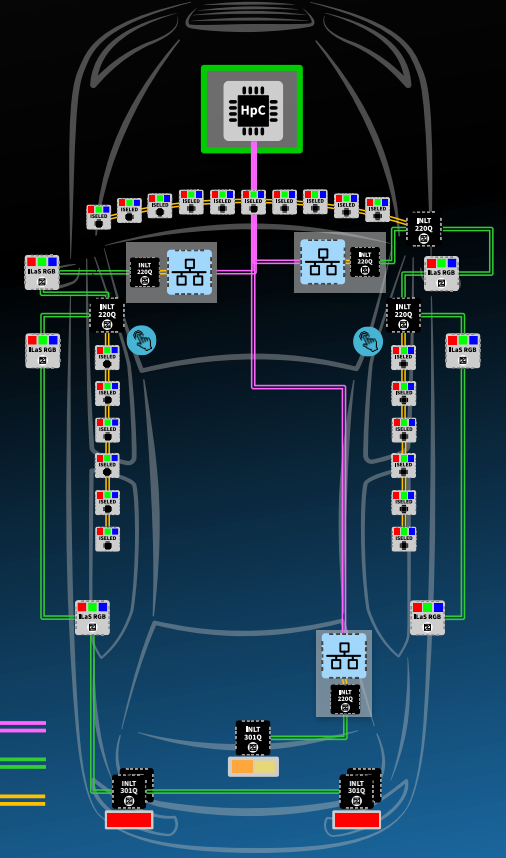
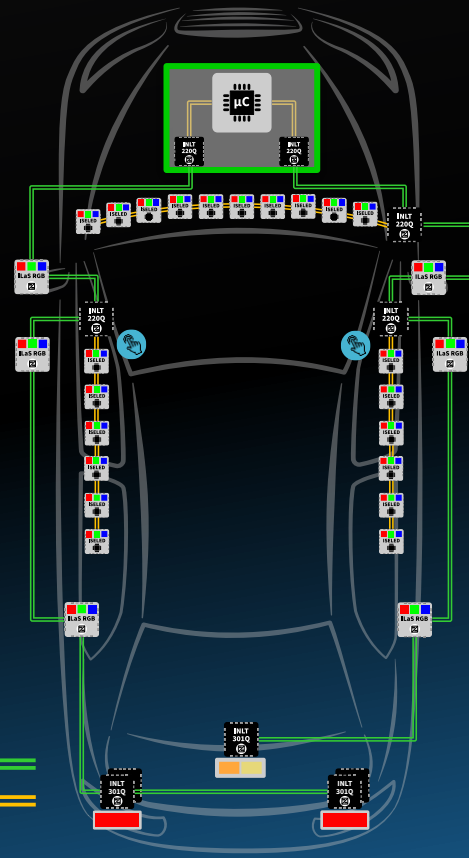
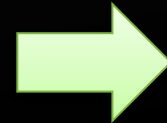
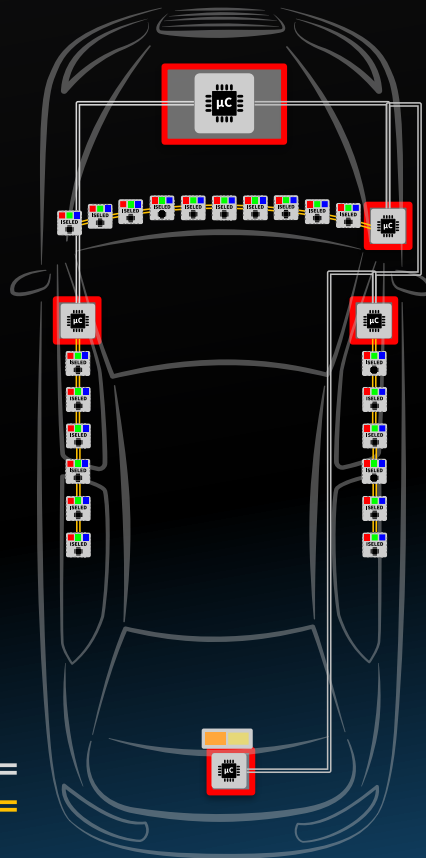
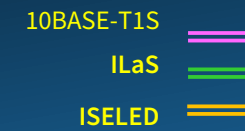
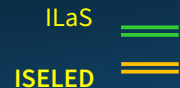
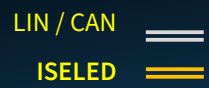
Distributed  
Local Control

Centralized Control  
Domain Architecture

Centralized Control  
Zonal Architecture

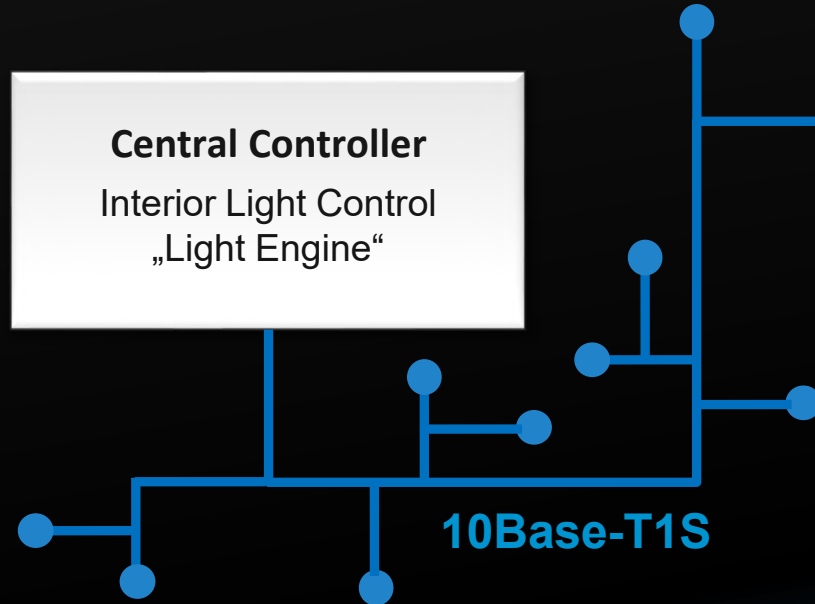
Local SW  
Instances

SW free  
periphery

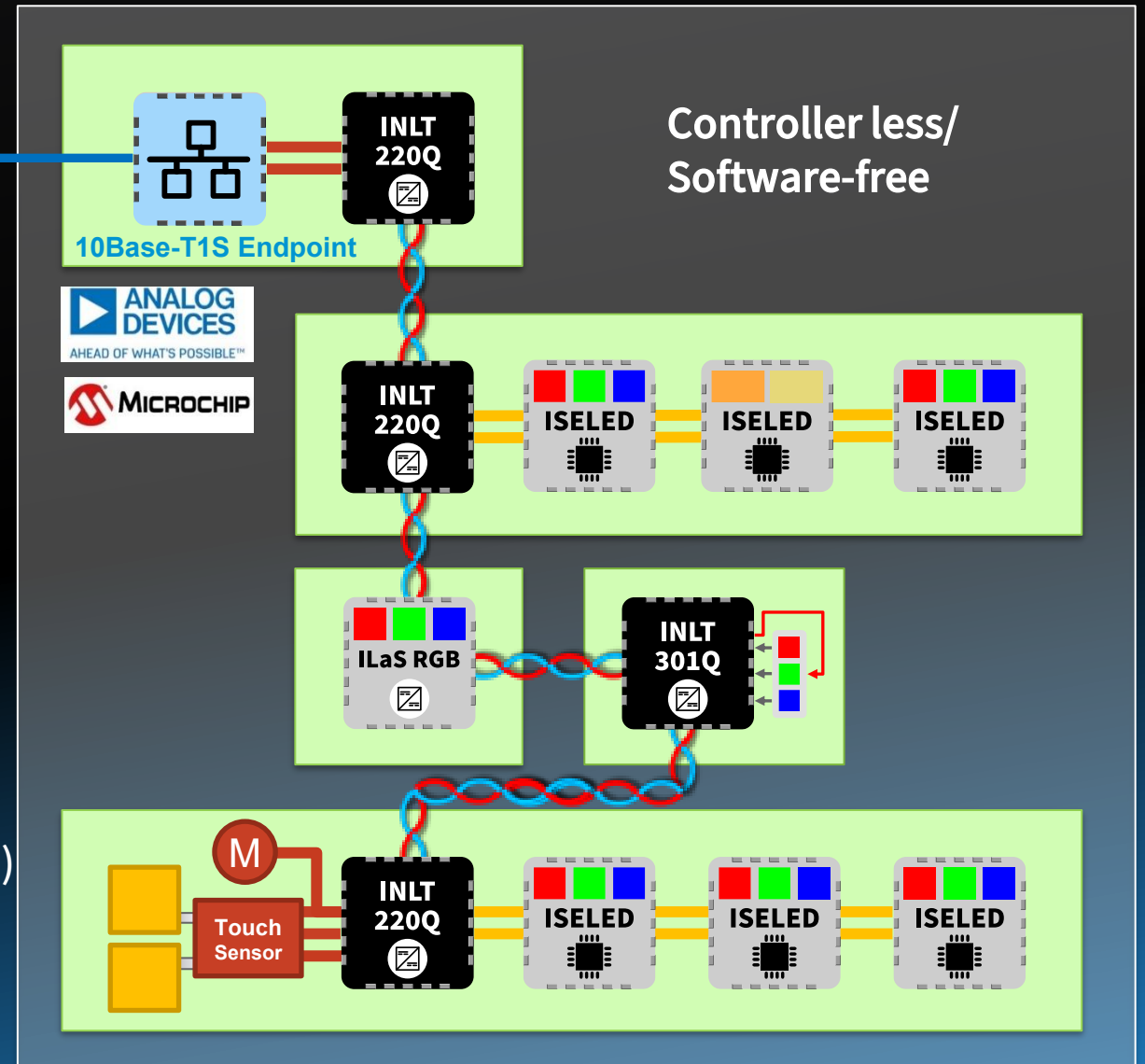


„Streaming of Lighting Data“

# SDV Architecture - Ethernet to ILaS



- Plug'n play – no calibration
- Centrally Controlled
- Simple Light Synchronization
  - control per „raw data“ (no re-calculation required)
  - Ethernet PTP (precision time protocol)
- Allows updates „on the fly“



# ISELED/ILaS Benefits: Reduced BOM with more Features



## Centralized single point of SW

**Drastically simplified SW management** - no coordination of different Tier1 SW required

**Simple synchronization** of lighting scenarios

**Easy OTA SW updates** at no additional cost, allows „lighting as a service“

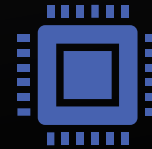


## Fully calibrated Smart LEDs

No need for system calibration @Tier1  
**reduces system cost**

**Reduced SW effort** on central MCU

- no calibration nor temp. compensation algorithm in SW  
With ISELED 2.0 re-calibration possible at End-of-Line.



## System cost reduction

**integrated DC/DC ctrl.** in INLT220Q & ILaS RGB LEDs

Easy integration of local control – **Sensor integration** via INLT220Q GPIOs


**Expandable single architecture** for ambient & direct lighting.





## Ecosystem

Multitude of Suppliers & Products  
**reduces Supply Chain Risks**

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