







Inova Semiconductors GmbH.



Private fabless semiconductor company

Headquarter: Munich, Germany

Founded 1999

Mission:

Development, manufacturing and worldwide sales of innovative Gigabit link solutions for serial data communication and smart LED solutions for the Automotive Market.

CONNECTIVITY FOR AUTOMOTIVE LIGHT & VISION







Business Area.

Brands

APIX – Automotive Pixel Link













ISELED – the digital LED







Market Establishment





















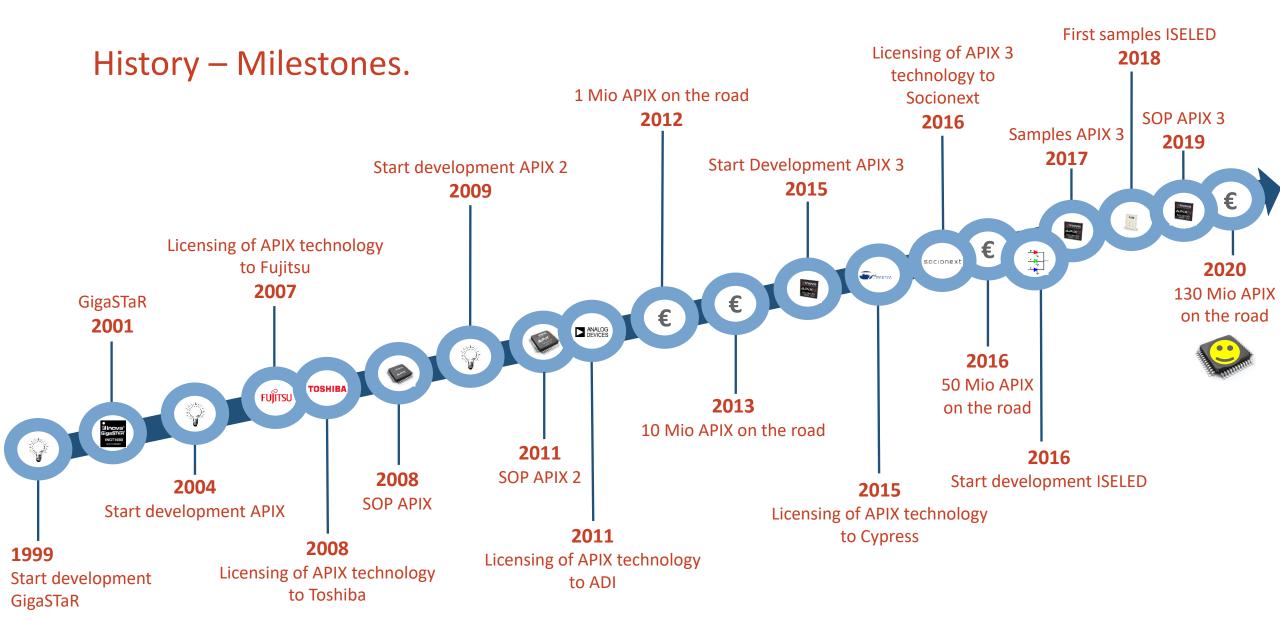










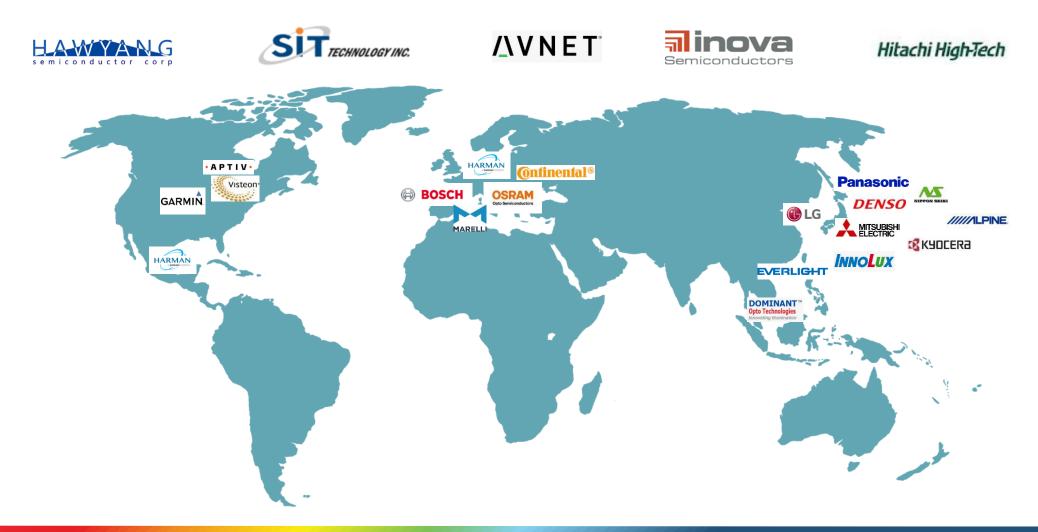








Global Presence.









Business Segments and Goals.



Provide Most Reliable Digital

Gigabit Multichannel SerDes Solutions to the Automotive Market



Central Instrumentation Displays

Cluster Displays

Passenger Displays

Console Displays

Rear Seat Entertainment

Displays for Camera Monitor Systems

HVAC Displays









APIX – Automotive Pixel Link.







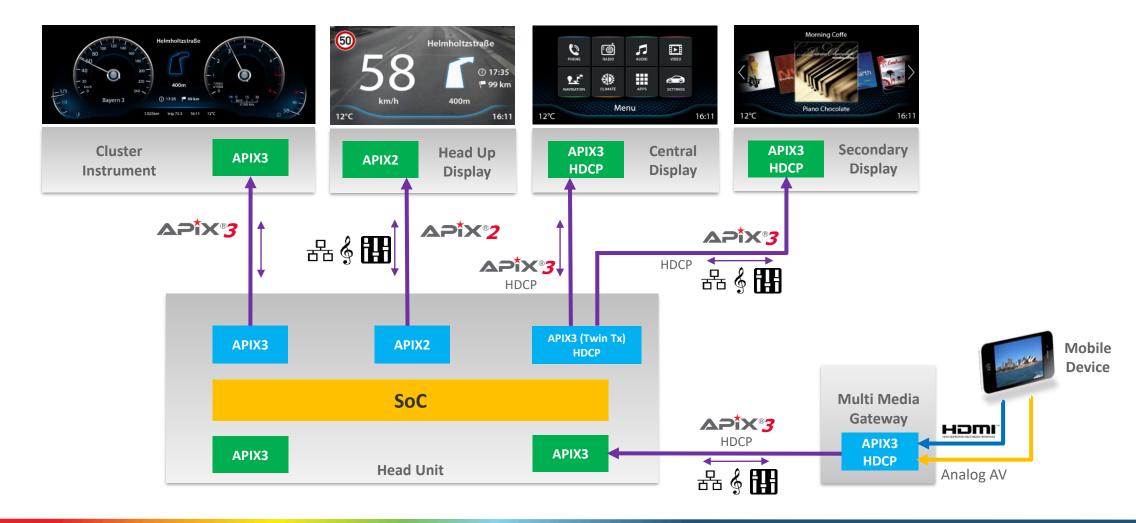
2008	2012	2018
1 Gbps	3 Gbps	12 Gbps
Video only	Multichannel HD Video Content Protection Ethernet Digital Audio	Multichannel UHD Video Next Generation Video IF Visually lossless Compression Content Protection Ethernet Data Communication Diagnostics Safety Digital Audio







APIX – Example Application





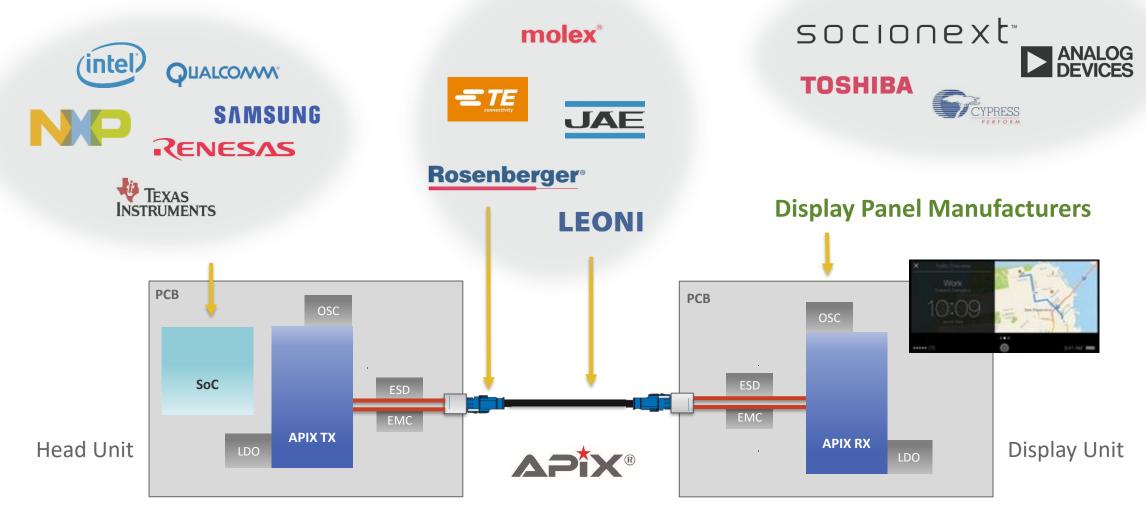




APİX®

APIX - Ecosystem







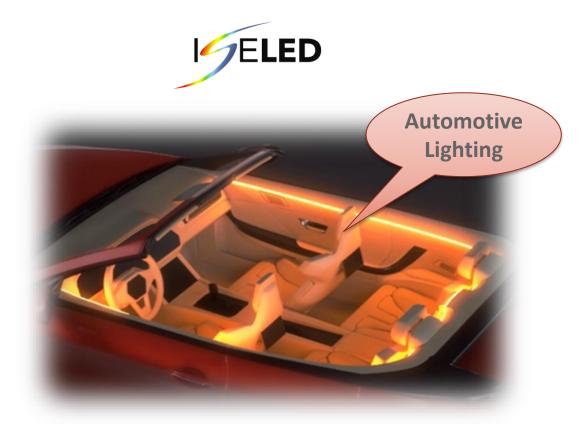








Business Segments and Goals



Provide Smart LED Driver Chips
to the Automotive Market for Dynamic Lighting
Solutions



Dynamic Ambient Lighting

Cluster Instrument with Tell Tales

Functional Lighting

LCD Panel – Local Dimming Backlight

External Lighting

Welcome Lighting

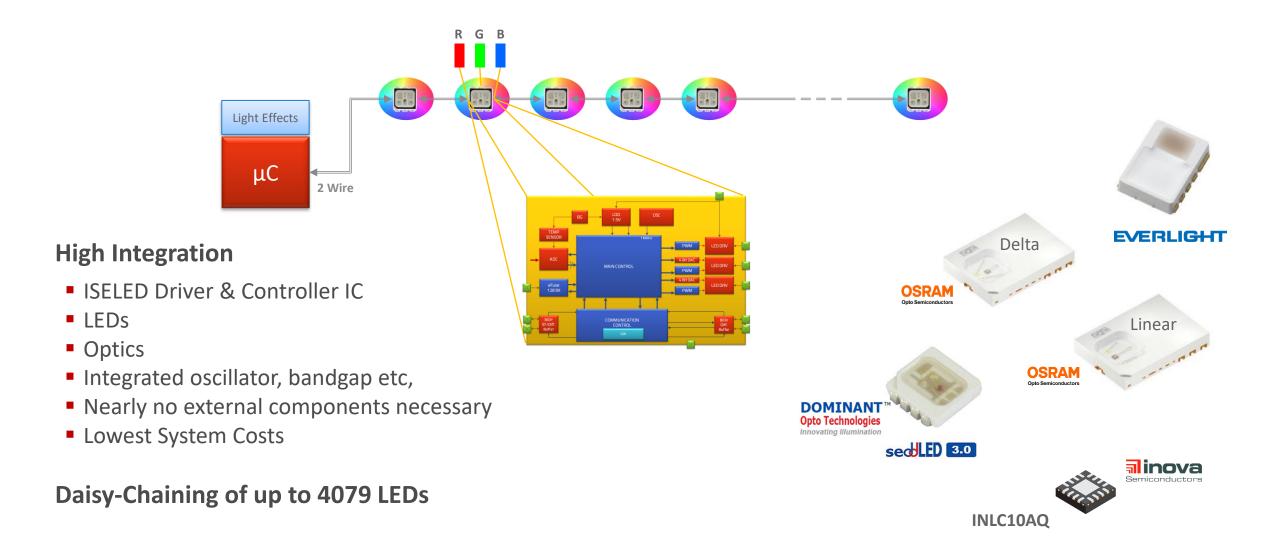
Logo Lighting







ISELED – *the* smart LED Technology

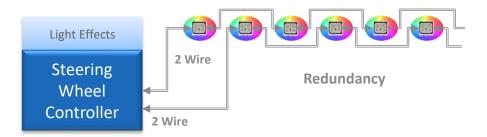








ISELED – Example Applications





Functional Lighting





Dynamic Ambient Lighting







Open Alliance

The open Alliance provides complete system solutions for smart LED, initially targeting automotive interior lighting.

More information can be found at https://iseled.com/.











































































General Facts.

Standards

Inova is working with several standards such as VESA, MIPI Alliance, HDMI, DisplayPort Technology, High-bandwidth Digital Content Protection, Open LDI, and DVN.

Sales & Licensing

We sell our products worldwide – directly and via distributors. We also licensing our technologies worldwide.

Awards 2017-2021

Frost & Sullivan: Customer Value Leadership Award 2017

Brand eins: Innovator 2018 in the sector "automotive supplier"

Focus: Growths Champion 2018
Focus: Growths Champion 2019
Focus: Growths Champion 2021

ElectroniqueS: Electrons d'Or 2019

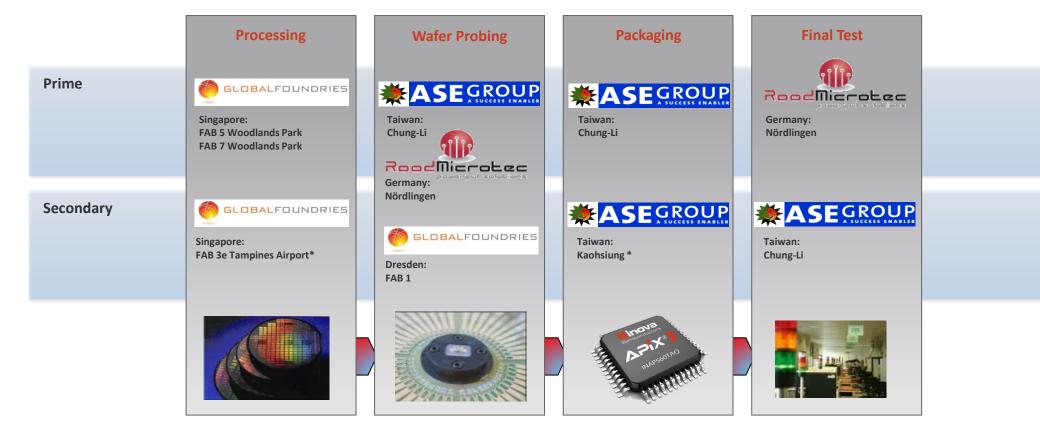
Stifterverband: Innovative Through Research – Seal of Approval 2020/2021







Supply Chain.



^{*} Transfer and Qualification required







Manufacturing and Quality.

Inova's company values emphasize a strong focus on quality and being a consistent reliable partner to its customers.

Inova is an ISO 9001:2015 certified company

High track records in delivery and quality

✓ A-supplier status with several customers

Support manufacturing with buffer stocks

Contingency planning and multisource production

Own quality and process management system

- ✓ AEC-Q100, PPAP, APQP etc. are all mandatory
- ✓ Continuous improvement process









Connectivity for Automotive Light & Vision

Symbiosis of APIX and ISELED

- Cockpit domain controlling: Light & Vision in the car
- ONE link for supporting Video, Light, Data, Ethernet, Audio
 - APIX protocol for video, audio and data
 - ISELED protocol for light and sensors
- ISELED for Matrix Backlight control
- Functional and Ambient lighting anywhere in the vehicle

Ethernet

SPI

Displays anywhere in the vehicle



Video







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