LEVERAGING I.MX8 HARDWARE FOR AUTOMOTIVE FUNCTIONAL SAFETY

CASE STUDY OF SAFEASSURE DISPLAY AND REAR VIEW CAMERA

EMEA MSS

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Automotive instrument clusters and in-vehicle infotainment rely more and more on complex application processors. They also require large software components to function properly. This complexity also increases risks of failures. There is also an growing need of safety, to detect and handle system faults in a timely manner. This is traditionally achieved by adding external parts dedicated to this purpose, increasing the system cost.

We introduce the SafeAssure Rear View Camera and SafeAssure Display solutions, with which we show how a system design can be simplified, and cost reduced using the unique safety features integrated in the NXP i.MX8 application processor.

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