# 3D Structured Light Module Nxp



## Overview

NXP's EdgeReady MCU-based solution for 3D face recognition leverages the i. MX RT117F crossover MCU, enabling developers to quickly and easily add 3D face recognition with advanced liveness detection to their products, with the confidence that it will work in even the most. Turnkey solution leverages NXP's high performance crossover MCU with 3D camera to enable faster secure face recognition under challenging lighting conditions NXP ® Semiconductors has announced the expansion of its NXP EdgeReady solution portfolio, adding a solution for secure face recognition that. NXP's EdgeReady MCU-based solution for 3D face recognition leverages the i. It leverages a dual-camera system featuring both RGB and 3D Structured Light Module (SLM) sensors to prevent spoofing via photos or video. MX. ■ Let AI help you make coffee: WPG World Peace uses MCX N microcontroller to achieve it! ■ NXP participated in the 2025 Embedded World Congress and won two awards! ■ Matter deployment, a complete guide to developing dual-PAN IEEE802.

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## Article Content

NXP Enables 3D Face Recognition for Secure Access

NXP ® Semiconductors has announced the expansion of its NXP EdgeReady solution portfolio, adding a solution for secure face recognition that

SLN-VIZN3D-IOT Product Information | NXP Semiconductors

Full-stack 3D face recognition development kit with eIQ machine learning tools and ready-to-deploy security features for IoT edge devices

SLN-VIZN3D-IOT Developer Guide

The development kit for this solution, SLN-VIZN3D-IOT, comes with fully integrated turnkey software, for quick out-of-the-box operation, minimizing time to market,

SLN-VIZN3D-IOT

The kit offers a turnkey solution for liveness detection using 3D structured light, which is significantly more secure than 2D facial recognition. By performing all processing locally on the MCU, it ensures

Low cost, high reliability: 3D structured light face recognition smart ...

At this stage, 3D structured light has advantages over ToF lenses in terms of recognition accuracy, viewing angle, etc. Therefore, NXP has prioritized the launch of a face recognition solution using 3D

NXP enables 3D face recognition for secure access control

NXP has announced the expansion of its NXP EdgeReady portfolio, adding a solution for secure face recognition that leverages a high-performance 3D structured light module (SLM) camera

NXP''s Edge-Ready SLN-VIZN3D-IOT Solution, Now ...

NXP''s SLN-VIZN3D-IOT development kit leverages a high-performance 3D structured light module (SLM) camera combined with the i RT117F crossover processor to deliver the

Face recognition uses 3D SLM camera and NXP''s i

The 3D structured light module (SLM) camera is combined with the i RT117F crossover MCU and is believed to be the first time a 3D SLM camera has been

NXP adds 3D SLM camera to MCU for face recognition

NXP has added to its EdgeReady portfolio with a face recognition device which uses a 3D structured light module (SLM) camera combined with the i RT117F crossover MCU.

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NXP enables 3D face recognition for secure access control with MCU ...

Turnkey solution leverages NXP''s high performance crossover MCU with 3D camera to enable faster secure face recognition under challenging lighting conditions. What''s new NXP®

S32K5 Auto General-Purpose MCUs | NXP Semiconductors

S32K5 high performance automotive microcontrollers for ECU consolidation in zone control, domain control and electrification.

Polarization structured light 3D depth image sensor for scenes with ...

Highly reflective surfaces are notorious in 3D sensing because they can cause errors in depth perception. Here, the authors devise a polarization structured light 3D sensor for this problem,

SLN-VIZN3D-IOT Product Information | NXP Semiconductors

NXP''s EdgeReady MCU-based solution for 3D face recognition leverages the i RT117F crossover MCU, enabling developers to quickly and easily add 3D face recognition with advanced liveness

How to Enable 2D Solution in SLN-VIZN3D-IOT

The SLN-VIZN3D-IOT development kit implements NXP EdgeReady turnkey solution for 3D face recognition-based access control using a 3D Structured Light Module (SLM) camera.

EdgeReady crossover processors for 3D facial recognition

The combined solution of the crossover processor with a high-performance 3D structured light module camera helps provide the performance and security of 3D facial recognition at the edge,

3D face recognition for secure access control with MCU

NXP Semiconductors has announced the development of its NXP EdgeReady solution portfolio, adding a solution for secure face recognition that

STRUCTURED LIGHT

The Structured Light Advantage Structured light allows you to take a scan of the entire target surface and inspect multiple features simultaneously such as fasteners, holes, slots, studs, and surface gap

Structured light | ams OSRAM

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Structured light systems from ams OSRAM enable 3D imaging applications to achieve extremely high accuracy. Accurate structured light technology is behind the user face recognition being implemented

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