

A brand of BASF – We create chemistry

A new gold standard for biometric authentication

trinamiX Face Authentication





Security

Certified for mobile payment



Convenience

Effortless biometric authentication



Affordability

Low hardware requirements and easy to integrate



Design

Invisible performance behind display

Privacy

The protection of sensitive data is our top priority: All user data collected during face authentication is encrypted and protected by Qualcomm® Trusted Execution Environment. It is only stored locally on the device without any cloud computing involved.



Find out more about trinamiX Face Authentication



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We combine 2D image with unique skin detection

trinamiX Face Authentication Reference Design RS 11

Software

Integration	Android
Secure Environment (TrustZone)	Qualcomm TEE with Trusted App (TA) and Secure Processing Unit (SPU)
FAR @ FRR Spoof Acceptance Rate (SAR)	1:1,000,000 @ 1 % 0 %; fulfills requirements for Android Biometric "Class 3" and mobile payment ¹

Hardware

Camera module	CMOS Camera
Dot projector and flood	940 nm VCSEL (Laser Class 1)
Dimensions (H x W x D)	6 x 15.5 x 3.3 mm
Interface	MIPI + GPIO

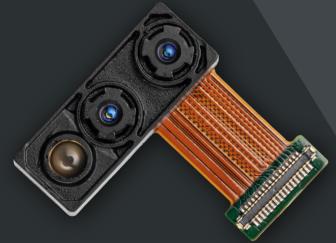
Evaluation Platforms

Operates on Qualcomm Snapdragon Platform and in Trusted Execution Environment

Key Operating Figures

Working range	0.2 m – 0.7 m
Outdoor performance	Up to 100 k LUX
Field of view	65 x 55 (H x V)
Operating temperature	From 0 °C to 60 °C
Unlock time	< 250 ms
Baseline	6 mm
Certification	FIDO, Android Biometric Security and IIFAA ¹
	Security and miret

1 Certification provided by biometrics test institutes. Must be re-certified in customer product.



Technology

The system enhances a regular 2D IR image by laser dot projection and analyzing it through our proprietary algorithms.

- Flood-illuminated 2D IR image
- Skin detection
- Meets FIDO BioLevel 2+ standard

About trinamiX GmbH

trinamiX develops cutting-edge biometric and mobile NIR spectroscopy solutions, which are used in both consumer electronics and industrial designs. The company's products enable humans and machines to better capture data, with the goal of understanding the world around us. This results in improved decision-making as well as stronger biometric security.

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