Biometric Precision that's Built In, Not Bolted On

Discover our Embedded Biometrics Solutions that Scale With Your Product Roadmap

IDEMIA
PUBLIC
SECURITY

Embedded biometrics that scale with your product roadmap.

When you're designing a product that needs to operate in a high-stakes environment and so requires exacting precision in identity verification, reliability and trust are non-negotiables. IDEMIA Public Security's Smart Biometrics dedicated biometric OEM solutions help you to build in fast, accurate, and secure identity verification as an integral and market differentiating component of your product.

Our biometric technologies are tested and lead in rankings by global standards bodies such as the U.S National Institute of Standards and Technology (NIST) and are trusted in the most demanding and exacting environments. Unlock a complete biometric engine, modular SDKs, secure, rugged hardware components, unique fraud detection capabilities and long-term availability. We help you create products that scale easily and are powered with a competitive edge.

In online and offline operating environments where accurately and quickly identifying an individual is non negotiable, our biometric solutions excel in performance. These might include government settings, time and attendance, healthcare access, banking and financial services, retail payments, industrial machinery authorisation and high-security datacentre verification.

Our biometric identification devices are designed to work where and when it matters most: in the real world, with real people and real consequences.

Technology that Performs. And Keeps Performing

We know identity isn't the only thing your device does. But it's the part that can make or break customer trust. Whether you're building a point-of-sale terminal, a time and attendance system, a KYC device, identification tablet, ATM or a secure datacenter rack for critical infrastructure, you need biometrics that integrate smoothly, perform consistently , are built to stay the course and keep regulatory compliance and product certification straightforward.

That's where we come in. Our embedded modules take the complexity out of identity, removing the need to build biometric identity capabilities.

We deliver proven, industry-leading high quality fingerprint capture, matching algorithms, unique anti-spoofing and data encryption functionality in a compact module that fits your product roadmap. With long product lifecycles, globally recognized high-reliability design certifications issued from globally recognized institutions, and on-demand engineering support, we make biometric functionality the easiest part of your product build. That way, you can concentrate on the other elements that also distinguish your device.

Our OEM technology is proven in the world's most demanding environments and easily weathers challenges such as dust, moisture, light or heavy use, and is backed by over 5 decades of R&D and a track record of reliability. This means faster time to market for your product, fewer support headaches, and the confidence to meet customer demands, both today and as regulations evolve.

Unlock 50+ years of biometric R&D

Offer your customers a product that delivers government-grade security **without sacrificing user experience or speed to market.**

Our embedded modules **take the complexity out of identity**, removing the need to build biometric identity capabilities.
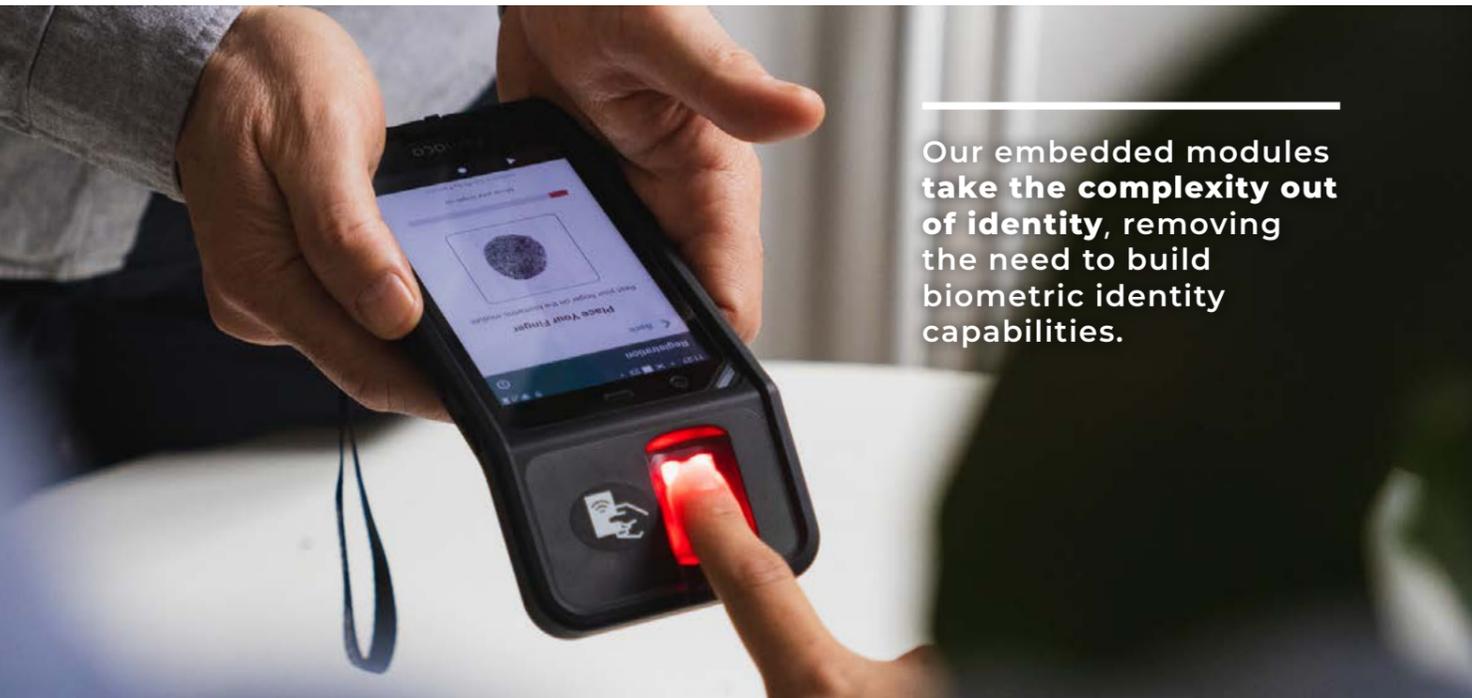
Why choose IDEMIA Public Security's Smart Biometrics OEM devices?

We make identity integration simple and powerful.

Our modules capture, process, and match all on the device, including 1:1 and 1:N (up to 5,000 users). This means sensitive data never leaves the module without first being encrypted and hacking is virtually impossible.

Continuous investment in R&D for over 5 decades means we provide biometric algorithms that rank among the top worldwide. In particular, our product development is centred around iterative and intentional design so to minimise customers having to wrestle with additional firmware updates. Our hardware is built to last. Our CBM and MSO modules leverage optical reader technology with larger ergonomic capture areas than standard to deliver consistent first-time capture success in the real world (even with dry, worn, or dirty fingers).

Equally, our packaging and materials are proven in the most demanding deployments from South African mines to national health programs, helping to reduce maintenance and ownership costs.

- Advanced **anti-spoofing**
- **Encrypted** communications
- **Privacy-first** controls
- Able to work **offline** and **online**
- **50,000+ hours** operating life per module
- **IP65 rated** (dust and weather resistant) integration options

10 Reasons to Harness the Power of IDEMIA's Biometric Excellence:

Embed biometric excellence into your device with easy to integrate, real-world proven, high calibre OEM devices

IDEMIA's Biometric Excellence

Eliminate Integration Complexity:
Forget bolt-on solutions that add risk. Our modules are designed to fit seamlessly into your device, with easy-to-use SDKs, flexible hardware options and all in one in-module matching.

Smart by Design:
Unlike image-only sensors, we offer a complete biometric engine within the device itself, including capture, template generation, template encryption and matching. This keeps sensitive data secure inside the sealed enclosure of the module.

Proven in the Field with Government-Grade Quality:
Trusted by governments, banks, and enterprises worldwide; you'll find our modules in the toughest environments, withstanding dust, moisture and heavy use within ATMs, POS devices, tablets, access readers and industrial switches.

Always Ready:
Store up to 5000 users on an individual device offline to enable reliable operation and verification in remote or secure locations.

Exacting Matching and Image Quality:
Benefit from exacting image quality, complying with FBI and STQC standards for audit and industry compliance with no extra effort.

Partnership for the Long Haul:
Mature SDKs for Windows, Linux and Android, clear documentation, and responsive engineering support throughout the duration of the product lifecycle.

Built to Last:
Our rugged devices offer lifecycle stability, long operating life (50,000+ hours, operational 24/7) and long-term support, reducing redesigns and total cost of ownership.

Fraud Resistance:
Advanced anti-spoofing technologies including iBeta Level 2 certification for fake finger detection.

Roadmap Stability:
With our device upgrades maintaining the same form factor and API backward compatibility, benefit from continuous R&D to minimize re-engineering your product housing or host code paths.

Privacy Built in:
End- to-end encryption alongside secure data channels protect user information from capture to end point, providing support to enable a GDPR compliant architecture.

See How Your Device Could Excel With Our Biometrics

Enrollment Kiosks

Enable fast, secure identity registration for government programs and enterprise onboarding- both temporary or permanent for employees, visitors and subcontractors. From civil registries and voter enrollment to e-KYC in banking and telecom, or accessing critical infrastructure such as Nuclear power plants, enrollment kiosks capture a complete set of high-quality fingerprints quickly and reliably. Designed for high-volume environments, they support slap or rolled acquisition with real-time quality checks to ensure accurate data collection. These kiosks help agencies and businesses build trusted digital identities at scale, delivering compliance with global standards and a seamless experience for operators and users alike.

Point of Sale (POS)

Take advantage of shorter queues, fewer chargeback disputes and a robust compliance story with fast, sub second fingerprint verification into your Point of Sale (POS) terminal. Liveness detection reduces fraud attempts, and encrypted template handling supports audits without slowing transactions.

Time & Attendance

Reduce buddy punching and downtime with sub-second identity verification to deliver cleaner, error- free time logs and reduced manual work for HR. Repeatable biometric capture on worn, dry, or dirty fingers and local 1:N (up to 5,000) identifications maintain device trust and cut queues and service calls.

Government & eKYC Tablets & ID Verification Devices

Build a KYC or ID verification device that meets non-negotiable financial and public-sector standards. Let us provide FBI IQS/STQC image quality, sub-second 1:1 checks at volume and government-grade privacy controls that keep the biometric data sealed in the module and transferred via virtually hack-proof end-to-end encryption.

ATMs, Banking, Lottery Machines

Future-proof your financial authorisation device or ATM with regulatory- grade secure biometrics and privacy controls. Reduce false rejects and service calls and preserve throughput with robust optics, and tamper-resistant template storage that supports secure withdrawals and account access.

Industrial & Machine Enable/Lockout

Ensure the highest of quality standards and safest of starts, strictly authorising only trained personnel to operate critical machinery with stop/start finger authentication built in, and on-device enrolment and event logging. Our Smart Modules keep the entire decision loop on the device (enrol, verify, log) and are built to withstand the harshest of industrial environments including dry, dusty or even damp environments, both online and offline.

Datacenter Racks

Take your datacenter security to the next level with per-rack biometric authorization and cryptographically protected event reporting so you know who opened the cabinet and rack, and when. Provide clear audit trails for critically sensitive server access, enabling market-leading differentiation for companies that need the highest level of data protection for their servers.

Our OEM portfolio

Smart Integrate: Powering your Market Leadership and Enhancing Your Product Differentiation

Every product family is designed to deliver consistent performance in real-world conditions, backed by decades of R&D and certifications that matter. Across all product families we offer variants complying with the US FBI Image Quality Standard, the reference Annex B and India's National Testing Authority for quality and security with leading performance in accuracy and reliability (STQC-certified (L0 & L1) with top-rated accuracy in FRR testing).

IDEMIA MSO OEM 330/331 series

MSO OEM 330/331 - High-Assurance Optical Modules (FAP30)

Ideal for:
eKYC kiosks, banking and fintech terminals, healthcare access

Key features:
• Larger capture surface so fewer false rejects
• FIPS 201 and MINEX-compliant embedded algorithms- (independently tested for government-grade security, accuracy, and interoperability)
• Authentication <0.7s, <0.9s identification 1:1000
• Privacy Mode
• Patented Fake Finger Detection (MSO 331)
• IP65 protection for harsh conditions

IDEMIA CBM series

Compact Biometric Modules (FAP10)

Ideal for:
Access controllers & smart locks in compact enclosures, handhelds & peripherals (terminals, scanners, rugged PDAs), kiosks & lockers where space, power, and cost matter, industrial panels where you need reliable, repeatable capture

Key features:
• Easy to embed
• Slim optical design
• Local 1:N matching (up to 5,000 users)
• FBI PIV IQS compliance fast matching (<1 second typical)

MTOP SLIM OEM module
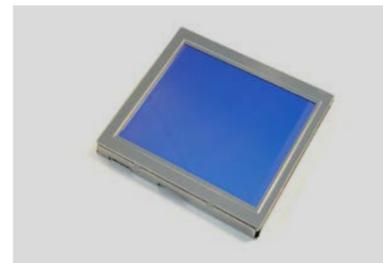
MTop Slim OEM - Slap & Rolled Livescan (FAP60)

Ideal for:
Government programs inc. ID registration, secure kiosks, elections, border control kiosks etc.

Key features:
• Ultra-thin
• Lightweight design
• Fast slap (<2 secs) and rolled capture (4/4/2)
• FBI Appendix F certification
• SDK support for Windows
• Linux, Android
• Connection and power via USB 2.0

Comparison Snapshot

FEATURE	MSO OEM 330/331	CBM Series	MTop Slim OEM
FAP Level	FAP30	FAP10	FAP60
Ideal Use Case	High-security	Embedded OEM	Enrollment
Local Database	Up to 5,000	Up to 5,000	Host-managed
Anti-Spoofing	Advanced (331 version)	Yes (varies)	Yes
Certifications	FBI PIV IQS, FIPS, iBeta Level 2 anti-spoofing (331)	BI PIV IQS, STQC	FBI Appendix F

Integration and Support Options

We offer flexible, dedicated integration support to help you get up and running quickly comprising of dedicated training time as well as hotline support. Choose from comprehensive SDKs and APIs for Windows, Linux, and Android including advanced MorphoKit™ SDK for capture, authentication, and identification. Equally, take advantage of our white-label mobile capture options, and direct engineering assistance with level 1,2 and 3 support available. Our documentation, comprehensive partner portal and certification program via the IDEMIA Biometric Devices Academy offer clear and practical information, and our support team is ready to help with troubleshooting, certification, and customisation, so all you need to focus on is building products that stand out in your chosen market.

Whether your product is enabling access, enrollment, verification, or transaction authentication, IDEMIA provides the secure biometric identification engine you need in your product to deliver trusted performance, seamless user experience, and data compliance no matter the market.

Ready to embed trust?
Contact IDEMIA to discuss the right solutions for your product, integration and pricing.

Unlock the world,
make it safer.

www.idemia.com