

# HID Global Single Fingerprint Sensors and Modules

Lumidigm<sup>®</sup>, DigitalPersona<sup>®</sup> and TouchChip<sup>®</sup>

As new security concerns emerge and user authentication requirements increase, only a worldwide leader in trusted identity solutions with a proven biometric portfolio can meet or exceed today's business requirements. HID Global's OEM single fingerprint sensors and modules support easy integration into a multitude of applications beyond the door: time and attendance clocks, employee point-of-sale (POS) terminals, banking transactions, healthcare applications for patients and staff, and more.

When your product requires a fingerprint sensor or module for biometric identification and authentication, the end user's needs must be considered. Who are your customer's users in terms of age, gender, race, occupation and population? What are your customer's pain points? Do your customers need enhanced security features such as encryption or strong liveness detection? How do your customers capture and manage their biometric data?

No matter the situation, application, physical environment, user demographics, security capabilities, or biometric data collection preference, our products have the features to fit the most demanding use cases.

## KEY BENEFITS

- **Real World Applications:** Integrate our fingerprint sensors and modules by leveraging existing infrastructure or implementing an end-to-end solution for diverse applications — perfect for security-conscious industries like banking/financial, enterprise/corporate, government, healthcare, retail/POS and more.
- **Mainstream to Harsh Environments:** Fast, accurate, and reliable fingerprint authentication that works in many conditions. From office to harsh outdoor environments to mobile applications, these field-proven devices work reliably for years, and support moisture and dirt protection up to IP65.
- **Diverse User Populations:** HID patented multispectral imaging (MSI) technology consistently captures high-quality fingerprint images supporting a large number of users with age, gender, race and occupation diversity — even when the finger is dry, wet, dirty, damaged or aged.
- **Meet Security and Standards Requirements:** Prevent fraudulent use of shared, fake, or stolen biometric data with enhanced security features such as liveness detection, encryption, tamper detection — all while meeting government certifications for FBI PIV, STQC, encryption and others.
- **Choice in Data Collection Methods:** Choose from a range of options for capturing, storing, and processing biometric data, such as:
  - **Streaming:** Connect to a USB host that stores and processes biometric data.
  - **Embedded:** Store and process biometric data on the device.
  - **Encryption:** Encrypt sensitive data between the host and the sensor and protect data stored on the device with active hardware tamper detection and response.

**PRODUCT PORTFOLIO OVERVIEW**

Family	DigitalPersona			TouchChip		Lumidigm				
Model	4500	5200	5300	TCS1	TCES4K	M210	M320	V300, V310	M420, V420	
Key Differentiators	Small size, fast capture, economical. Widely used in retail and commercial POS devices.	FAP 20 PIV module with hard optical surface.	FAP 20 PIV module with hard optical surface.	Thin capacitive sensors & modules. PIV & STQC certified. Ideal for mobile devices. Optional on-device processing & encryption.	Swipe sensor module for small size and low cost. On-device processing.	Multispectral w/ USB for on-host processing. Proven liveness, capture, match performance.	Multispectral w/ on-device processing and 1:N search. Proven liveness, capture, match.	Multispectral w/ on-host or on-device processing. Large capture area for usability. Best for harsh conditions.	Multispectral w/ encryption & tamper detection. Secure end-point supports user-defined keys.	Multispectral w/ encryption & tamper detection. Proven for secure financial transactions and other high-security applications.
Biometric Data Collection	Streaming	Streaming	Streaming	Streaming or Embedded	Embedded	Embedded	Embedded	Streaming or Embedded	Encryption + Tamper Detection	Encryption + Tamper Detection

**KEY USE CASES**

Applications	Pain Points	Fingerprint Modules/Sensors
Time & Attendance terminals	Buddy punching, managing staffing levels	M320, M210, V300, V310, TCS1
Access Control terminals	Badge renting, badge sharing, operational efficiency, access speed	M320, M210, V300, V310, TCS1
Single Sign-On (SSO) desktop devices	Eliminate the need for and hassle of remembering passwords	M210, DP4500, TCS1
Healthcare: Drug dispensing of controlled substances	Theft and auditing, works with dry fingers	V300, V310
Healthcare: Staff IT authentication, EPCS	Fast and meets DEA requirements	TCS1
Banking: ATM & High-Security transactions	Fraud, theft, hacking	V300, V310, M420, V420
Banking: Employee logon & Customer/Teller authentication	User authentication	M210, DP4500, DP5300, TCS1
Benefits Disbursement (welfare, healthcare, retirement)	Fraud, theft, hacking	V300, V310, M420, V420
Voting and ID	Fraud, theft, hacking	V300, V310, DP5200, DP5300
Point of Sale / Retail (employee)	Unauthorized management approvals	M210, DP4500, TCS1



**RELATED PRODUCTS AND SOFTWARE**

[Single Finger Readers](#)

[Lumidigm® Developer Center](#)

[DigitalPersona®/TouchChip® Developer Center](#)

**LEARN MORE**

Our portfolio of product offerings, resources and product experts help simplify the decision-making process for both you and your customers, ultimately adding to your bottom line and providing security, reliability and convenience. Additional information and resources are available on our [website](#). Speak with your regional product expert for guidance on finding the best solution for your application(s) and customers' needs.



**hidglobal.com**

North America: +1 512 776 9000  
Toll Free: 1 800 237 7769  
Europe, Middle East, Africa: +44 1440 714 850  
Asia Pacific: +852 3160 9800  
Latin America: +52 55 9171 1108

© 2019 HID Global Corporation. All rights reserved. HID, the HID logo, DigitalPersona and EikonTouch are trademarks or registered trademarks of HID Global in the U.S. and/or other countries. All other trademarks, service marks, and product or service names are trademarks or registered trademarks of their respective owners.  
2020-02-13-eat-single-fingerprint-sensor-modules-ss-en PLT-04931