

# OMNIKEY® 532I PAY Devices

Contactless Payment Devices EMVCo CL 2.0-Certified

- ▶ **Simple Entry to Payment World** – Finished reader and embedded reader board allow simple conversion of PC-based point-of-sale terminals into contactless payment systems
- ▶ **Readily Compliant** – Supports EMVCo CL 2.0, ISO 7816
- ▶ **Fast, Secure Transmission** – Processes contactless smart cards up to 848 kbps in fastest ISO 14443 A/B mode and allows secure transactions via an integrated SAM socket
- ▶ **Easy to Integrate** – Designed with WHQL-certified drivers for Windows® operating systems and PC/SC standards-compliant interface
- ▶ **Flexible** – Supports ISO 14443 A/B and ISO 15693, and full MIFARE® family in “ISO” Mode



## SECURE contactless.

With the OMNIKEY® 532I PAY EMVCo CL 2.0-Certified payment devices, HID Global has entered the world of contactless payment systems. The OMNIKEY 532I PAY Devices offerings include a desktop smart card reader for PC-based point-of-sale solutions in retail and loyalty environments, as well as an easy-to-use reader board for integration into kiosk or terminal applications within the contactless payment world. This extends HID Global's solid cashless payment portfolio which includes Automatic Fare Collection and banking solutions.

The OMNIKEY 532I PAY Devices represent the ideal combination of contactless technology and security support through a SIM-sized card in a single device for contactless payments. Easy to install via an USB connection, the devices economically support payment environments where EMVCo-compliant contactless smart card technology is used.

Ideal for desktop applications, the OMNIKEY 532I PAY Reader offers customers a fully certified device that can be easily integrated within their existing payment system while enabling them to take advantage of the reader's contactless payment capability. Additionally, the OMNIKEY 532I PAY Reader Board offers quick and easy integration into third-party kiosks and/or terminals and is designed to be future-proof, thereby reducing the risk to customers presented by new payment industry certifications.

- ▶ Supports EMV (Europay®, MasterCard®, Visa®), EMVCo Contactless 2.0 certification and Microsoft® WHQL
- ▶ Supports three ISO standards for contactless cards (ISO 14443 A/B and ISO 15693) in ISO mode
- ▶ Processes contactless smart cards with up to 848 kbps in the fastest ISO 14443 transmission mode
- ▶ Standard application interfaces include PC/SC, Synchronous-API (on top of PC/SC), OCF (Open Card Framework) or CT-API
- ▶ Provides visual and audible feedback with integrated LEDs and buzzer, as per EMVCo specification

# Specifications

<b>Base Model Number</b>	OMNIKEY® 5321 PAY Reader	OMNIKEY® 5321 PAY Reader Board
<b>Dimensions</b>	3.78" x 3.07" x .031" (115 x 96.5 x 25.5 mm)	3.74" x 3.03" x 0.39" (95 x 77 x 10 mm)
<b>Weight</b>	Approx. 5.64 oz / 160 g	Approx. 1.41 oz / 40 g
<b>Power Supply</b>	Bus powered	
<b>Operating Temperature</b>	32°-131° F (0° - 55° C)	
<b>Operating Humidity</b>	10-90% rH	
<b>HOST INTERFACE</b>		
<b>Host Interface</b>	USB 2.0 CCID <sup>1</sup> (also compliant with USB 1.1). Complete with 71" (180cm) USB Cable	
<b>Transmission Speed</b>	12 Mbps (USB 2.0 full speed)	
<b>CONTACT SMART CARD INTERFACE</b>		
<b>Standards</b>	ISO 7816 & EMV <sup>2</sup> 2000 Level I	
<b>Protocols</b>	T=0, T=1, 2-wire: SLE 4432/42 (S=10), 3-wire: SLE 4418/28 (S=9), I <sup>2</sup> C (S=8)	
<b>Card Size</b>	ID-000 (SIM sized)	
<b>Smart Card Interface Speed</b>	420 kbps (when supported by card)	
<b>Smart Card Clock Frequency</b>	Up to 8 MHz	
<b>Supported Card Types</b>	5V, 3V and 1.8V Smart Cards, ISO 7816 Class A, B and C	
<b>Power to Smart Card</b>	60 mA	
<b>Smart Card Detection</b>	Movement detection with auto power-off / Automatic detection of smart card type/ Short circuit and thermal protection	
<b>CONTACTLESS SMART CARD INTERFACE<sup>5</sup></b>		
<b>Protocols</b>	T=CL, MIFARE®, ISO 14443 A with 848 Kbps transmission rate <sup>5</sup> (depending on card) ISO 14443 B with 848 Kbps transmission rate (depending on card) • ISO 15693 with 26 Kbps transmission rate (depending on card)	
<b>Supported Card Types<sup>7</sup></b>	EMVCo CL-compliant smart cards: MasterCard PayPass™ and Visa payWave; NXP: MIFARE, DESFire®, SMART-MX, ICODE and Ultralight; Texas Instruments: TagIT®; ST Micro: x-ident, SR 176, SR 1X 4K; Infineon: My-d (in secure mode UID only)	
<b>Supported APIs</b>	PC/SC driver (ready for 2.01), OCF (on top of PC/SC, for contact interface), Synchronous API (on top of PC/SC)	
<b>PC/SC Driver Support</b>	Windows 2000 / XP (32bit), 2003 Server, 2008 Server, Windows CE 5.0 / CE.NET / CE 6.0 (depending on hardware), Windows XP 64bit (AMD64, EM64T, IA64), Windows Vista (32bit / 64bit), Windows 7 (32bit / 64bit)	
<b>Status Indicator</b>	Green LEDs and buzzer, according to EMVCo CL 2.0 standard	
<b>Color</b>	Dark grey	Green
<b>Options</b>	<b>Customer Specific Logo, Label and Colors:</b> Available upon request	
<b>Composition</b>	ABS	FR-4
<b>Durability</b>	10,000 insertions	
<b>Meantime Between Failure (MTBF)</b>	500,000 hours	
<b>Compliance / Certification</b>	EMVCo CL 2.0 <sup>5</sup> , Microsoft WHQL <sup>3</sup> , EMV <sup>2</sup> 2000 Level I, ISO 7816, HBCI <sup>4</sup> , USB 2.0 (USB 1.1 compatible), CCID <sup>1</sup> (contact interface only), TAA (on request)	
<b>Safety / Environmental</b>	CE, FCC, UL, RoHS, WEEE	
<b>Warranty</b>	Two year manufacturer's warranty. (For drivers, see complete lifetime support policy.)	

<sup>1</sup> Chip Card Interface Device, <sup>2</sup> Europay® MasterCard® Visa®, <sup>3</sup> Windows® Hardware Quality Lab, <sup>4</sup> Home Banking Computer Interface, <sup>5</sup> ISO Mode Only, <sup>6</sup> EMVCo applies to housed reader only, <sup>7</sup> Refer to developers guide for guidance and limitations on supported card types  
[http://www.hidglobal.com/documents/ok\\_contactless\\_developer\\_guide\\_an\\_en.pdf](http://www.hidglobal.com/documents/ok_contactless_developer_guide_an_en.pdf)



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**SECURE** contactless.

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