

Value through Innovation

# VP3300/VP3300C/VP3300E User Manual



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### FCC warning statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The user manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**Note:** The grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment.

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.

The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter and must be installed to provide a separation distance of at least 20cm from all persons.

### **Cautions and Warnings**



**Warning:** Avoid close proximity to radio transmitters, which may reduce the capabilities of the reader.

### **Revision History**

Date	Rev	Changes	Author
04/08/2021	М	Implemented Revision History	CB
		Added VP3300BT Mounting and EMV Contactless Logo Requirements	
05/04/2021	Ν	Added note about ECP 2.0 support in Major Features and Contactless	CB
		NFC Features sections	
03/03/2022	0	Added VP3300 Mounting Requirements section	CB
08/14/2023	Р	Updated external links.	CB

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# 1. Introduction

The ViVOpay VP3300 is ID TECH's family of ultra-compact, EMV L1- and L2-certified contactless card readers, designed for low cost, high reliability, and maximum compatibility with existing contactless payment technologies (including Apple Pay, Google Pay, and Samsung Pay).

The VP3300 family includes models with and without contact-EMV capability, as well as with and without magnetic swipe reader (MSR) functionality. The VP3300C, which offers contactless-transaction capability *without* contact-EMV or MSR, provides an extremely cost-effective way for merchants to add tap-and-go capability to existing payment options without the need to replace other hardware. Likewise, the VP3300E offers an economical way for merchants who already have MSR capability to add contact-EMV and NFC functionality.

The VP3300 series incorporates the proven EMV L2 kernel of ID TECH's popular UniPay III card reader. Developers can integrate VP3300-series products into EMV-ready terminal systems with minimal effort using ID TECH's Universal SDK, available for Windows, Android, or iOS.

# 1.1. Major Features of the VP3300 Family

- Micro-USB port for communications and power
- Magnetic stripe support (VP3300 only): ISO 7810/ISO 7811, Hi-Co+Lo-Co Magnetic, JIS1/JIS2
- MSR (VP3300 only) is bidirectional, reading up to 3 tracks of data at once
- ICC support (VP3300 and VP3300E): EMV Level 1 and EMV L2 approvals; all L1 & L2 on the device
- Contactless transaction support via Near Field Communication (NFC): all models
- LED status indicator
- Audio feedback
- Field upgradable firmware
- Standby mode for low power consumption
- Compact and ergonomic design to integrate with a variety of devices
- Available with a sturdy stand for tabletop use
- TDES and AES 128 encryption support
- DUKPT key management
- Software Development Kits for Windows, Android, iOS
- One-year manufacturer's warranty
- Supports 16 contact and 16 contactless AIDs, for a total of 32 AIDs
- ECP 2.0 Support<sup>1</sup>

Feature	VP3300	VP3300C	VP3300E
Contactless reader (NFC capability)	$\checkmark$	✓	✓
ICC reader with landing contacts and EMV L1 and L2 certification	$\checkmark$		~
3-track MSR (magstripe reading)	$\checkmark$		

<sup>&</sup>lt;sup>1</sup> Supported in NEO 1.10.035 and above. Not supported in NEO 1.01 firmware.

Feature	VP3300	VP3300C	VP3300E
EMVCo Contactless L1 and major card	$\checkmark$	✓	$\checkmark$
brand contactless certifications (L2's)		-	
Compact Size	$\checkmark$	$\checkmark$	$\checkmark$
4 Green LEDs for contactless indication	$\checkmark$	$\checkmark$	$\checkmark$
Audio feedback to signal good and bad card reads,	$\checkmark$	✓	$\checkmark$
etc.		-	
TDES and AES encryption algorithms	$\checkmark$	$\checkmark$	$\checkmark$
Supports ID TECH standard TR31 (and optional	1	1	1
TR34) Remote Key Injection	·	•	•
Supports multiple key slots	$\checkmark$	$\checkmark$	✓
RoHS and REACH compliant	$\checkmark$	$\checkmark$	$\checkmark$
One year manufacturer warranty	$\checkmark$	$\checkmark$	$\checkmark$

# 1.2. Magnetic Stripe Features (VP3300 only)

- ISO 7810 / ISO 7811
- AAMVA format
- JIST/II
- Single / Dual / Triple Track Support
- Bi-directional reading
- Samsung Pay MST

### 1.2.1. ICC Contact Card Features (VP3300, VP3300E)

• EMVCo Contact Level 1 & 2 compliant

### 1.2.2. Contactless NFC Features

- ISO 14443 Type A & B
- ISO 18092 (P2P)
- MasterCard<sup>®</sup> MCL (Formerly PayPass)
- Visa payWave/VCPS
- Visa IRWIN
- Discover® DPAS
- American Express® ExpressPay
- MIFARE
- Apple Pay
- Apple VAS Loyalty
- Samsung Pay NFC & MST
- Google Pay
- Google SmartTap Loyalty
- ECP 2.0 Support<sup>2</sup>

<sup>&</sup>lt;sup>2</sup> Supported in NEO 1.10.035 and above. Not supported in NEO 1.01 firmware.

# **1.3. Supported USB Interfaces**

• USB-HID or USB-KB

# 1.4. Before Using VP3300 Products

Devices in the VP3300 family are compact micro-USB devices for handling contactless transactions. Each VP3300-series device is designed to operate in conjunction with certified third party payment software and compatible hosts, such as USB-equipped tablets, PCs, and smartphones. Before connecting a VP3300 to its host, install and activate the software application service according to the instructions provided by the payment application service or software provider, then connect the VP3300 to the host through a micro-USB cable (not included).

**Note:** Not all mobile devices allow connections to external USB devices via USB On-The-Go cables. If a mobile device does not support OTG cables, it will not recognize a VP3300, preventing a VP3300 from working with the ID TECH USDK Demo or any mobile merchant apps. Verify OTG cable support with the mobile device manufacturer.

### **1.5. Electrical Power**

State	Typical Current Draw	Current Draw with Buzzer On
Idle (Poll on Demand, Contactless OFF)	80 mA	Maximum 230 mA
Idle (Poll on Demand, Contactless ON)	400 mA	Maximum 530 mA
Autopoll Mode	400 mA	Maximum 530 mA

### Transactions per battery charge:

250 MSR + 125 EMV + 125 EMV CTLS transactions (Total 500 transactions) per charge.

### 1.6. LED Status and Audible Beeper During Transactions and Operation

Device Status	4 LEDs	Audible Beeper
Run Mode	Left LED Flash 300ms on/5s off	
Contactless Read Successful	All 4 LEDs flash Once	1 longer beep
Contactless Read Failed		2 short beeps
ICC is being Processed	Left LED flashes: 500ms on/off;	
	DO NOT remove card	
Magnetic Stripe Read Successful	All 4 LEDs flash Once	1 longer beep
Magnetic Stripe Read Failed		2 short beeps

### Physical Specifications (VP3300, VP3300C, VP3300E)

ltem	Specification
<b>Physical Dimensions</b>	64mm x 49mm x 14.5mm(LxWxH)
Structure Material	Plastic, PC UL 94V-0
Texture	MT11010
Weight	50g

### **Operation and Storage Environment**

ltem	Specification	Note
Operating Temperature	0 °C to 55 °C	1. Non-condensing.
		2. Product operation temperature is limited to the
		range for the reason of the constraint of Li-
		Battery specification.
Storage Temperature	-20 °C to 60 °C	1. Non-condensing.
		<ol><li>Product storage temperature is</li></ol>
		limited to the range for the reason of
		the constraint of Li-Battery
		specification.
Operating Humidity	5% to 95%	Non-condensing
Storage Humidity	5% to 95%	Non-condensing

# 1.7. Other Agency Approvals and Compliances

- CE (EN55022/EN55024, Class- B)
- FCC (Part 15, Class-B)
- RoHS (DIRECTIVE 2011/65/EU)
- REACH
- EMV Contact L1 & L2
- EMV Contactless L1

# 2. For Software Developers: Software Development Support

VP3300 devices are designed to be compatible with a wide range of third party payment applications. ID TECH offers a Universal SDK for iOS, Android, or Windows to enable rapid application development with any model of VP3300 as the target device. Supported languages include Objective C (on iOS), Java (on Android), and C# (on Windows). The Universal SDK includes rich, powerful libraries that make communication with VP3300 comparatively easy while greatly facilitating debugging.

Normally, development of applications that take advantage of VP3300 capabilities can be done in a high-level language like Java or C# (using convenience objects and data structures), obviating the need to send hex-code commands directly via USB-HID.

Nevertheless, if you need to communicate with the device via audio jack or via USB-HID, it is possible to do so. For a command reference for VP3300-series products, consult the *NEO Interface Developers Guide* (IDG), P/N 80139403-001.

### 2.1. Best Practices for VP3300 Developers

When developing payment applications for Android and iOS, make sure to consult the *ID TECH Universal SDK Guide* for your respective platform for best practices to follow. Download the *Universal SDK Guide* from the <u>VP3300 product page</u> as part of the ZIP file for your development platform.

ID TECH strongly recommends that integrators include a way for users to update their passwords.

### 2.2. USDK Demo App

The Universal SDK comes with a rich, fully featured demo app. The SDK includes complete source code for the demo app. ID TECH also offers a <u>standalone version of the USDK Demo</u> on the ID TECH Knowledge Base.

#### To use the USDK Demo app:

- 1. Plug a VP3300-series device into a Windows computer using a USB-to-micro-USB cable.
- 2. Open UniversalSDKDemo.exe.

The USDK Demo App displays available commands in a command tree:

USB UniPay Vend Vend III Soosk III/IV MmSmart II Spectrum Pro L100 CM100 Augusta Augusta KB UniPay 1.5 © VP3300 Secure Mag	Contract Trans Cancel Trans Ca	Log: Cose All	Discover		WELCOME           7         8         9         F1           4         5         6         F2           1         2         3         2
K100           NE02           TMS           SecureKey           SREDKey2             Serial           Vendi           Vendi           MarSanati II           Spectum Pro           Kosk III/V           L100           Bertial	Send Data Command Fimware Venion Get Senial Number Ping Device Interface Control LED 0rF LED Bink Enable ICC Passthrough Burtt Mode Off Auto Pol Pol On Demand Execute RKI Set Merchart Record Get Merchart Record Get Merchart Record Get Merchart Record Get Transacton Results Y	10:05:15.534 CUT: 569364(74653683200) 10:05:15.494 IN: 569364(74653683100) 01:04(56)100(583100) 01:04(56)100(583100) 01:04(56)100(583100) 01:04(56)100(56)100(583100) 00:000100000000000000000 00:0000000000	30200005551 3000157fc+401004f55 fc+a01014f7503003000 100ffc+3007fff701 fp+01004f951b01039f fp+01004f951b01039f 000000000000000000000000000000000000	^	I         Z         J         ·           Cancel         O         Enter         Back           Results:         I
O Securemag O K100 O NEO2 Port Baud	Open IP Scan IP Close IP Chk Standby Wake-MAC Wake-IP Use TLS 1.2 for IP Connection			~	
Default ~		Start Capture To Disk	Stop Capture To Disk		
Close	Events Comment	Clear	Logs		
Documentation	Execute Command	Show Log Folder	Email Logs to Support		×

Single-click on a command to populate the center panel of the window with optional settings relevant to the command (for example, **Amount** and **Start EMV Additional Tags**). In some cases, the app provides text fields, allowing users to enter custom values:

Version somatic VANDS	Amount 1.00	7
ns Command Command ersion lumber	Log: Close All Discover 10:05:15.536 OUT: 5669564f746563683200030200005b91 10:05:15.549 IN: 5669564f74653688320003000167ffe40100df65	1 Cancel

To execute a command, double-click it in the command tree or click **Execute Command**:

O Secure Mag O K100 O NEO2 Port	Open IP     Scan IP     Close IP     Chk       Standby     Wake-MAC     Wake-IP       Use TLS 1.2 for IP Connection	01309a031
Baud Default ~ Close		Start Cap
Documentation	Execute Command	Show

The command executes in real time and a data trace appears automatically in the center and/or right-hand panels. Use the **Clear Logs** button to clear both panels:

× Ink P	Log: Cose Al 10:05:15.536 OUT: 5659564746563632000 01:05:15.549 IN: 5669564746563632000 0100d760100d760100d 01700100d77010104770 007f7901037f60200000000 00000000000000000000000 015f41000000000000000000 000000000000000000	Discover 30200005b91 3000167fr440100df65 r6a0101d7503003000 100ff30207ffff701 rfb0100df991b01019f 0000000000000000 000000940056000010 00000000000000000 00000000000	1       2       3       ?         Cancel       0       Enter       Back         Back         Results:         10:05:15.530Connected VP3300 (USB)         SDK Default Device = VP3300 (USB)         10:05:15.531Connected VP3300 (USB)	
	Start Capture To Disk	Stop Capture To Disk		
	Clear	Logs		
	Show Log Folder	Email Logs to Support	~ ·	

# 2.3. Updating VP3300 Firmware

The steps below describe the process for updating VP3300 firmware via the Universal SDK Demo.

When developing payment applications, make sure to consider that recommended firmware updates include new features, enhancements, and bug fixes. ID TECH strongly recommends that payment application developers include one of the existing methods for firmware updates: via the ID TECH Universal SDK or via low-level commands.

To implement the USDK method, review the USDK package with sample source code and documentation appropriate to the desired platform. To implement the low-level command method, contact your ID TECH representative for information.

**Note:** Before you begin, contact your ID TECH representative to receive the most recent VP3300 firmware. Download the ZIP file and extract it to your computer.

- 1. Connect the VP3300 to your PC via USB or serial port.
- 2. Download and install the latest <u>USDK Demo app</u> from the ID TECH Knowledge Base (if you cannot access the link, please <u>contact support</u>).
- 3. Open the USDK Demo app from the Windows Start menu.

Serial         Verd           Verd II         MinSmart II           Spectrum Pro         Kook III//V           L100         BT Mag           V P8800         Ver800           Secure Mag         Open IP           K100         Standay           Wake-IP	USB UniPay Vend II Kook III/V MarSmart II Spectrum Pro L100 Augusta KB UniPay 15 Ø VP8300 VP8800 SecureMag K100 NEO2 TMS SecureKey SREDKey2	Contraction Decryption Decryption Personatic COMMANDS ⊕ MSR ⊕ Device ⊕ EVV ⊕ EVV ⊕ CCLS	Log: Close All	Discover	WELCOME           7         8         9         F1           4         5         6         F2           1         2         3         ?           Cancel         0         Enter         Back           Results:         7         7         7
Port Use TLS 1.2 for IP Connection Start Capture To Disk Stop Capture To Disk Clear Logs	Serial Vend II MinSmart II Spectrum Pro Kook III/V L100 BT Mag VP8800 SecureMag K100 NEO2 Pot Baud Defaut V Close	Open IP Scan IP Close IP Chk Standby Wake-MAC Wake-IP Use TLS 1.2 for IP Connection	Start Capture To Disk	Stop Capture To Diak	

4. Under Device, select Update Device Firmware, then click Execute Command.



- 5. Navigate to and select the VP3300 firmware file you downloaded earlier and click **Open**.
- 6. The VP3300 reboots and enters the bootloader, at which point the USDK Demo app begins updating the device.
- 7. When the firmware update completes, the VP3300 reboots again and the USDK Demo app prints **Firmware Update Successful** in the **Results** panel.

#### Results: Sent block 306 of 306 Applying Firmware Update.. SDK Default Device = Device Not Connected SDK Default Device = VP3300 (USB) 11:41:59.815Connected VP3300 (USB) Firmware Update Successful

# 2.4. What Kind of USB Cable to Use with a VP3300

The table below provides scenarios for using a VP300 with a USB cable and the type of cable required.

Scenario	Device Communication	Cable Required
I want to charge the VP3300.	None	Standard micro USB
		cable
I want to connect the VP3300 to a	USB-HID	Standard micro USB
computer to power the device and use		cable*
the computer as a host device.		
I want to connect the VP3300 to a	USB-HID	Powered OTG micro
mobile device to power the VP3300, use		USB cable*
the mobile device as a host device, and		
power both the VP3300 and mobile		
device via power injection.		

\* Also supports updating firmware.

# 2.5. VP3300 Mounting and EMV Contactless Logo Requirements

Note that if the VP3300 is mounted behind any kind of casing or cover, that assembly MUST follow EMV requirements regarding contactless logo size and position. See <u>EMVco Contactless</u> <u>Symbol Reproduction Requirements</u> for details.

# 2.6. VP3300 Mounting Requirements

Note that the VP3300 antenna's RF field antenna is sensitive to the proximity of metal. There are three options for mounting the VP3300 in or on a metal surface:

- Mount with the front of the VP3300 at least 1cm *forward* of any metal.
- Mount with the front of the VP3300 at least 1cm *behind* any metal. Note that this will reduce the effective range of the antenna.
- Mount the front of the VP3300 flush with the metal, but allow a minimum of 1cm distance from the metal, as shown below:



# 3. VP3300 Troubleshooting

Follow the steps below when troubleshooting VP3300 issues.

### **3.1. Checking for Power Issues**

- 1. Turn on the VP3300.
- 2. Check to see if the VP3300 is battery-powered
  - a. If it is, make sure that it has enough battery charge, and recharge it if needed.
- 3. If the VP3300 is not battery powered, check to make sure the power supply is connected and providing power to the device.
- 4. The VP3300 should have a lit green LED if it is on and has enough power.

### 3.2. Checking for Connectivity Issues

- 1. After the checking the VP3300 for all possible power issues, connect it to a computer.
- 2. Check if Windows Device Manager displays the VP3300.
  - a. If the device is not there, try adding it manually in the device manager.



3. If the Device Manager does display the VP3300, launch the USDK Demo application.

4. Check for the VP3300 in the USDK Demo app. In the screenshot below, the **USB** connected device tab and **Results** field display a connected **VP3300**.

USB UniPay Vendi Kiosk III/IV MiniSmart II Spectrum Pro L100	SDK Version Decryption Parsomatic					WEL	COME		
Augusta Augusta KB					7	8	9	<b>F1</b>	
VP3300     VP3800     Second	⊕ Device ⊕ ICC ⊕ EMV		_		4	5	6	F2	
K100 NEO2	. CTLS	09:48:39.326 DUT:	Discover		1	2	3	?	
TMS SecureKey SREDKey2		5669564f7465636832000 09:48:39.326 IN: 5669564f7465636832000 0100df660100df680100d	30200005b91 3000167ffe40100df65 f6a0101df7503003000	C	ancel	0	Enter	Back	
Serial Vendi Vend III MiniSmart II Spectrum Pro Kiosk III/V L100 BT Mag VP8800 SecureMag K100 NE02 Pot Baud Default	Open IP Scan IP Close IP Chk Standby Wake-MAC Wake-IP Use TLS 1.2 for IP Connection	01004f660100df680100df6a0101df7030003000           0477001004f7704011df71000ff6302007ffeff701           160700000000000000000000000000000000000			SUITS: i:39.195Con Default Dev i:39.326Con	nected VP3300 ice = VP3300 nected VP330	0 (USB) (USB) 0 (USB)		<
Close		Clear	Logs						
Documentation	Execute Command	Show Log Folder	Email Logs to Support	1					~

If the VP3300 still does not connect, attempt to manually connect it through the Device Manager again.

# 3.3. Testing in the USDK Demo App

1. First, enter a basic command to make sure that the device is working. The example below uses the **Get Serial Number** command:



2. Next, enter a command that changes a device setting, like the Set Date command:

COMMANDS	Log: Close Al 000000000000000000000000000000000000	Discover c14000000000000000000000000000000000000	7         8         9           4         5         6           1         2         3           Cancel         0         Enter           Results:         948.33.9195Connected VP3300 (USB)         948.33.9200 (USB)           9948.33.920 connected VP3300 (USB)         5614 Lumber: 739T025795         5612 Lumber: 739T025795           Set al Number: 739T025795         5612 Lute executed successfully.         5712	F1 F2 Back	^
	Start Capture To Disk	Stop Capture To Disk			
Execute Command	Show Log Folder	Email Logs to Support			~

3. Next, enter the **Start Trans** command under the **Device** tab to verify the VP3300 accepts payments:

COMMANDS	Complete EMV Additional Tags Complete EMV Additional Tags No Host Cog: Cose All Discover S66956477465636832001201000018a5 09:53:12.010 UT: S66956477465636832001201000018a5 09:53:12.010 IN: S66956477465636832002503000420190828af12 09:59:31.424 UT: S66956477465636832002503000420190828af12 09:59:31.424 IN: S66956477465636832002500000efec 10:50:00.989 UT: S6695647746563683200020000efec 10:50:00.989 UT: S6695647746563683200020000efec 10:50:00.989 UT: S6695647746563683200200000000100e1cf 10:50:00.989 UT: S66956477465636832000200000efec 10:50:10.989 UT: S6695647746563683200020000000100e1cf 10:50:00.989 IN: S66956477465636832000200000efec 10:50:10.802 IN: S6695647746563633370333373431353122 323031313832232333373431353122 3230313138323232333337343135 31323230313138232323333337343135 313232303131382323233333374603 V		7         8         9         F1           4         5         6         F2           1         2         3         ?           2         3         ?         ?           2         3         ?         ?           2         3         ?         ?           2         3         ?         ?           2         3         ?         ?           2         3         ?         ?           2         3         ?         ?           2         3         ?         ?           2         3         ?         ?           2         3         ?         ?           2         3         ?         ?           2         3         ?         ?           2         3         ?         ?           2         3         ?         ?           3         2         ?         ?           3         ?         ?         ?           2         3         ?         ?           2         ?         ?         ?           2         ?		
	Start Capture To Disk Stop Capture To Disk Clear Logs		1323232333333373d3135313232303131383232323938333fffee0 104df30010c 9F39: 90		
Execute Command	Show Log Folder	Email Logs to Support	DFEE23: 0237008017002600a2003b343432373830383030313131323232		

#### 4. Finally, enter the **Start EMV Trans** command to verify that EMV works on the VP3300.



# **3.4. Further Issues**

For any further issues, restart the USDK Demo app, disconnect and reconnect the VP3300, and complete the above process again.

For any issues with a specific command, email ID TECH Customer Support at <a href="mailto:support@idtechproducts.com">support@idtechproducts.com</a> (sending an email to this address automatically generates a support ticket).

# 4. For More Information

- To learn more about the VP3300 and other ID TECH products, visit the <u>ID TECH</u> <u>Knowledge Base</u>.
- Visit us online at <u>http://idtechproducts.com</u>.
- Find more Tech Support resources at the <u>ID TECH Tech Support home page</u> or send an email describing any issues to <u>support@idtechproducts.com</u>.