

#### APG8201 PINhandy 1 OTP Generator

#### **Product Presentation**









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## **Presentation Rundown**

- Introduction
- Product Overview
- Product Features
- Product Value
- Product Applications
- Question and Answer



#### Introduction

- As technology becomes more and more sophisticated, fraud-related incidents in the banking sector also become more prevalent.
- These occurrences generate billions of dollars worth of losses and bring distress among credit and debit cardholders. Because of these, certain security measures and systems are created.
- In this regard, the APG8201 PINhandy 1 OTP Generator is a reliable tool that can be utilized to fight these occurrences.



# **Introduction: One Time Password**

- One Time Passwords are passwords that can be used only ONCE
- Types of OTPs:

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- Predefined from a list
- Randomly Generated

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## Introduction: One Time Password

- More secure since its almost impossible to hack or phish.
- No need to remember multiple passwords for different systems.
- Dynamic passwords: Unique Password for Each Person

PIN	VS	ОТР
Static Password		Dynamic Password
Memorization of multiple passwords		Little Memorization or no Memorization at all
Set of passwords is personalized		Two people will never have the same set of passwords



## **Introduction: OTP Devices**

- Devices or applications that can generate one-time passwords
- Can be classified into Mathematical algorithm type, timesynchronized type and challenge type
- More secure than using traditional printed OTP list

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OTP scratch card

OTP One-Time Passphrase Generator					
Enter OTP Parameters: 99 ab		99 ab12345			
Secret F	<sup>o</sup> assword:				
One-Time F	assphrase:	SEW SNOB LONG KNOW STAR KISS			
Display As 🗧 🦳 Hash Algorithm 🖳 🔤					
C Words	C MD4	Compute One-Time Passphrase			
CHex	MD5				
	C SHA1	Copy Passphrase to Clipboard			
Append to Clipboard Copy © CR C LF C NONE		Fetch OTP Params from Clipboard			
Automatic D	ecrement	Info Exit			

**OTP** applications



**OTP** devices



### **Product Overview**

- Supports Challenge-response and Transaction Data Signing Modes
- Requires the presence of a smart card, PIN and challenge code prior to the generation of the OTP





## **Product Overview**

- PC-linked Mode
- Standalone Mode
- USB 2.0 Full Speed
- PC/SC 2.01 Secure PIN Entry Support
- Handheld Device with Compact and Portable Design



### **Product Features**

- Dimensions: 95mm X 60mm X 11mm
- Weight: 49g (w/ Batteries)
- Uses 2 CR2302 Batteries for Standalone Mode
- Durable Tactile Keypad with 20 Silicon Rubber Keys
- High Contrast, 16-Character, 2-Line
  Alphanumeric LCD
- Supports Full-Sized Microprocessor cards (T=0 and T=1 protocols)
- Supports EMV Cards





#### **Product Features**





#### **Product Features**

#### **Compliance and Certifications**

- MasterCard® Chip Authentication Program (CAP)
- MasterCard® PIN/Perso-less Authentication (PLA)
- VISA Dynamic Passcode Authentication (DPA)
- UK APACS
- EMV Level 1
- CE/FCC
- RoHS
- CCID
- ISO-7816
- Microsoft® WHQL
- PC/SC 2.01 Secure PIN Entry



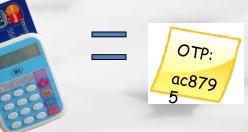






### **Product Value**

- It is specially designed to safeguard users from emerging fraud attacks like Card-not-Present (CNP) fraud and emerging Man-in-the-Middle attacks.
- Key generated will be based on the smart card to be used with the device
- It provides proof that a card is present during an OTP process.
- The PIN is securely entered on the device rather than the vulnerable PC or workstation, hence eliminating the possibility of a Virus/Trojan getting hold of the PIN.





# **Product Applications**

- e-Banking
- e-Payment
- Dynamic One-Time Password
- Remote Authentication
- Digital Signature









#### **Product Applications**

