



APG8202

PINhandy OTP Generator

A Product Presentation









Presentation Rundown

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



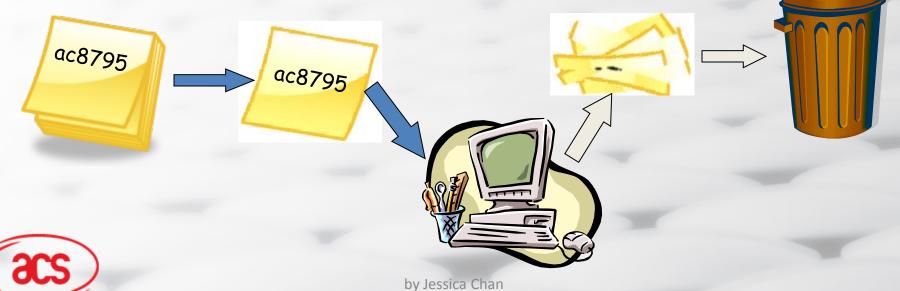
Introduction

- 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 APG8202 PINhandy OTP generator is a reliable tool that can be utilized to fight these occurrences.



Introduction: One Time Password

- One Time Passwords are password that can be used only ONCE
- Types of OTPs:
 - Predefined from a list
 - Randomly Generated



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	OTP
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

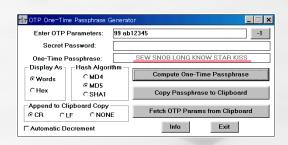


Introduction: OTP Devices

- 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



OTP scratch card



OTP applications





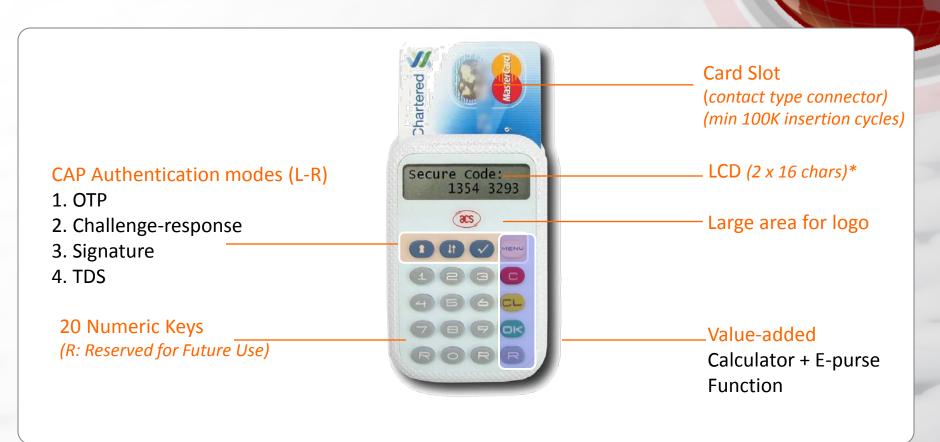
- OTP Generator
- Standalone Mode
- Supports PC/SC 2.01 Secure PIN Entry
- Handheld Device with Compact and Portable Design



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







*Graphical LCD for showing Logo

Multiple Languages: Simplified Chinese, Traditional Chinese, French, English





Product Features



Standalone Mode

Other Features:
Graphical LCD (128x24 Pixels)
Keypad with 20 Silicon Keys
Monotone Buzzer
Calculator Function

Size:

95mm x 60mm x 11mm

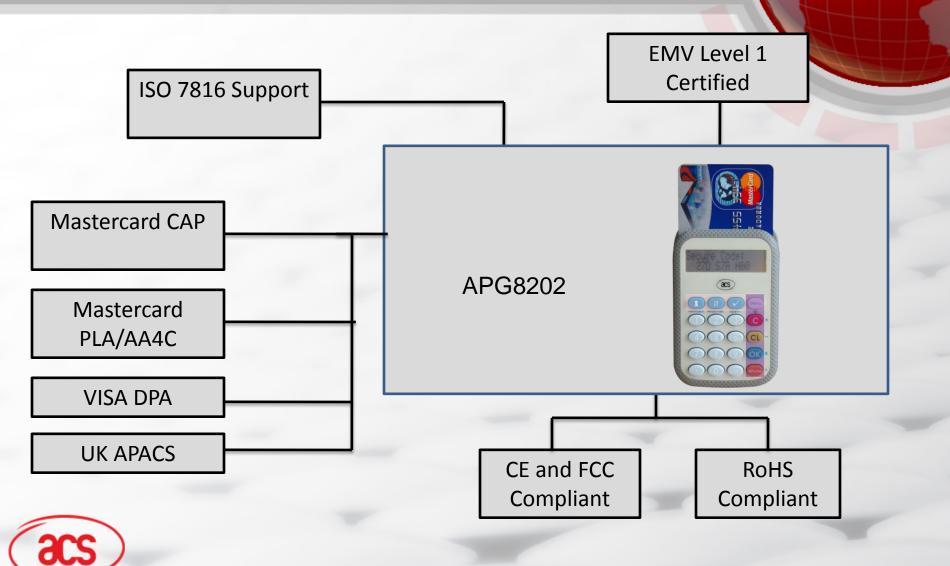
Contact Card Support: ISO 7816 (Class A) MCU Cards (T=0, T=1)

11



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Product Features



Product Value

- It is specially designed to safeguard users from the 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.





Application Overview



Windows Logon



Corporate Security



Online Gaming



eCommerce/eBanking



Loyalty System www.acs.com.hk



Home Banking



e-Banking: Identify Mode



User browses the Online webpage of the online-banking, and try to logon, which username.



Insert the card **Choose Identify** Mode Input the PIN

OTP Token Generated: 4356 7869



Input Details Indicated in the Website (i.e. Card Number) Input OTP generated in the website



User can access his/her information online





Once verified by the backend server the website will permit the transaction to continue



e-Commerce: Challenge-Respond Mode



User browses the Online webpage to purchase goods/services



Merchant Website provides a challenge (i.e. random/hashed number)



Insert the card Choose Mode 2 Input the PIN Input Challenge

OTP Token Generated: 4356 7869



Input Details
Indicated in the
Website (i.e. Card
Number)
Input OTP generated



User is able to purchase goods and services





Once verified by the backend server the website will permit the transaction to continue



e-Banking: Sign Mode



The e-Banking Website asks the user to sign the transaction to continue



Insert the card
Choose Mode 3
Input the PIN
Input Challenge
Enter Transaction Amount

OTP Token Generated: 4356 7869



Input Details
Indicated in the
Website
Input OTP generated



perform Fund

Transfer

User has successfully performed fund transfer





Once verified by the backend server the website will permit the transaction to continue



e-Banking: Transaction Data Signing



User chooses to perform Fund Transfer (large sums of money involved)



The e-Banking Website asks the user to verify the account number and sign the transaction to continue



Insert the card
Choose Mode 4
Input the PIN
Input Challenge
Input Account Number
Enter Transaction Amount

OTP Token Generated: 4356 7869



Input Details
Indicated in the
Website
Input OTP generated



User has successfully performed fund transfer





Once verified by the backend server the website will permit the transaction to continue



Thank You!!!



More information on:

http://acs.com.hk/index.php?pid=product&id=APG8202

http://www.apg8202.com

