



ZOWEETEK®



## ZOWEETEK รุ่น ZW-12026-2

- เครื่องอ่านบัตรประชาชน บัตรสมาร์ทการ์ด
- สามารถอ่านข้อมูลในบัตรแบบอนกประสงค์ (Smart Card) ตามมาตรฐาน ISO/IEC 7816 ได้
- ตัวเครื่องขนาดพกพา ใช้งานง่าย
- มีไฟแสดงผล
- สามารถใช้งานผ่านช่องเชื่อมต่อแบบ USB 2.0
- **ไม่รองรับการใช้งานร่วมกับ โทรศัพท์มือถือหรือสมาร์ตโฟน**
- การรับประกันสินค้า 30 วัน
- ออกใบกำกับภาษีเต็มรูปให้ทุกรายการ

# SPECIFICATION

Item Name	Specifications
Model No.	USB 2.0 Smart Card Reader ZW-12026-2
Host Interface	Host Interface USB 2.0 CCID1 (also compliant with USB 1.1)
Transmission Speed	12 Mbps (USB 2.0 full speed)
Power Supply	Bus powered Smart Card Interface
Standards	ISO 7816 & EMV2 2000 Level 1
Protocols	"T=0, T=1, 2-wire: SLE 4432/42 (S=10), 3-wire: SLE 4418/28 (S=9), I2C (S=8)"
Card Size	ID-1 (full-size)
Smart Card Interface Speed	420 Kbps (when supported by card)
Smart Card clock frequency	Up to 4 MHz
Supported card types	"5V, 3V and 1.8V Smart Cards ISO 7816 Class A, AB and C"
Power to Smart Card	60 mA
Status Indicator	Other Features Dual color LED
Customer specific logo or label	Options On request
Customer specific colors	On request
PC/SC Driver Support	Windows® 98 / ME, 200 / XP (32bit), 2003 Server  Windows® CE 5.0 (depending on hardware) Windows® Vista (32bit / 64bit) Windows® 7 Linux®
Operating temperature	Hardware Specifications 0°-55°C / 32-131°F
Operating humidity	10-90% rH
Composition	ABS
Connector cable	100 cm / 70.9"
Durability	100.000 insertions
Meantime between failure (MTBF)	500.000 hours
Carton Dimension	Packing Detail 55 x 33 x 27 cm
Carton/pcs	100 pcs /Ctn
N.W.	10.5 kg
G.W.	11.5 kg



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# 1. Introduction

## 1.1 Description

AU9540 is a highly integrated single chip USB Smart Card reader controller. Highly integration enables the lowest BOM cost of smart card reader. The AU9540 supports multiple international standards including ISO7816 for IC card standard, PC/SC 2.0 for windows smart card standard, Microsoft WHQL, EMV for Europay MasterCard Visa standard and USB-IF CCID standard. The application of AU9540 can be generally applied to Smart Card read/write terminal device, such as ATM, POS terminal, Public telephone, E-Commerce, personal consumption on Internet, personal certification, prepaid system, loyalty system...etc.

## 1.4 Features

- Package
  - 28 SSOP
  
- Standard Compliance
  - Support EMV Level 1 specification
  - Support USB 2.0 full speed
  - Based on ISO7816 implementation
  - Support PC Smart Card industry standard – PC/SC 2.0
  - Support Microsoft Smart Card for Windows
  - Meet Microsoft WHQL USB Smart Card Reader requirements
  - Meet US Federal Information Processing Standards (FIPS) Publication 201 requirements on smart card reader interoperability
  
- Features
  - Support single slot
  - Support T0, T1 protocol
  - Support I2C memory card, SLE4418, SLE4428, SLE4432, SLE4442, SLE4436, SLE5536, SLE6636, AT88SC1608, AT45D041 card and AT45DB041 card via external EEPROM
  - Support ISO7816 Class A, B and C (5V/3V/1.8V) card
  - Implemented as an USB full speed device with bulk transfer endpoint, Mass Storage endpoint
  - Built-in PLL for USB and Smart Card clocks requirement
  - Support EEPROM for USB descriptors customization (PID/VID/ iManufacturer/ iProduct/Serial Number), Direct Web Page Link, and accessing memory card module.
  - EEPROM programmable via USB interface
  - Support software update for memory card module
  - Support Direct Web Page Link via configuration in external EEPROM
  - Support short APDU and extended APDU
  - Compatible with Microsoft USB-CCID driver
  - Support remote wake up through inserting card/removing card
  - Support USB selective suspend
  - Support Power Saving Mode (Using one pin to select between Normal/PWR Saving Mode)