

## OCR310e

Miniature OEM OCR Reading Engine

### Compact for OEM Flexibility

The OCR310e is an optical character recognition (OCR) swipe reader module. Combining ultra-compact size and low-power consumption, the OCR310e is designed to be integrated into third-party, hand-held devices for applications such as portable identification verification devices.



### Accurate and Fast

An OCR decoder is integrated within the device using an advanced recognition engine to provide highly accurate and very fast document reading.

### Reads All ID Documents

The OCR reading engine captures code lines from machine readable passports (MRP), visas (MRV), US and international resident permits as well as European and other national ID cards conforming to ICAO 9303 & ISO/IEC 7501-1 (2 and 3-line MRZ). It will also read the new ISO/IEC 18013-1 driving licences (1-line MRZ), so is future-proofed.



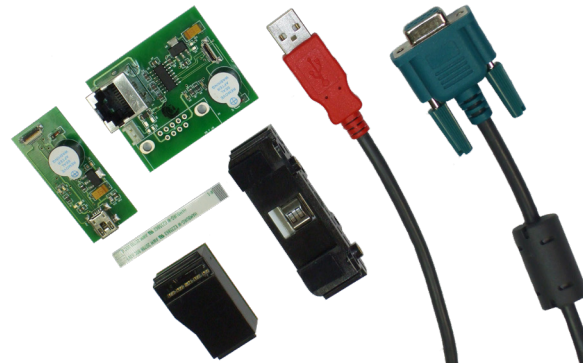
### Flexible Performance

In addition, APACS debit and credit documents (APACS standards 3.1 and 3.2, respectively) can be read together with E13B, OCRB and mixed E13B and OCRB fonts.

### Developer's Kit

A developer's kit is available to assist in the integration of the OCR310e into OEM equipment.

The kit comprises one OCR310e device, two development boards (one USB and one RS-232), all cables, utilities and documentation.



## Device Features

### Connection Types

- USB
- RS232

### Technology

ABC OCR / MRZ

### Reader Size

- Swipe

### Features

#### Miniature Package

Very compact design with low power consumption and sleep mode

#### Fast & Accurate

Access' established OCR decoding technology ensures speed and accuracy

#### Documents Read

Reads passports, visas and travel cards conforming to ICAO9303 & APACS debit/credit docs, E13B & OCRB font

#### Simple Integration

Developer's kit available and choice of Serial or USB interfaces (CDC, HID or keyboard emulation)

#### Intuitive Use

Bidirectional OCR read

## Applications

- Police identification checking
- Security checks at airport boarding gates
- Queue-busting at airport check-in
- AQQ and APIS generation & Kiosks

## OCR Reading capabilities

Standard OCR fonts: OCR-B

Machine readable passports (MRP):  
2 lines of 44 characters

Machine readable visas (MRV):  
2 lines of 44 characters, 2 lines of  
36 characters

ID documents: 1 line of 30  
characters, 2 lines of 36 characters,  
3 lines of 30 characters

MRZ swipe speed: up to 100cm/sec

OCR decoding: up to 0.3 second

Field of view object height: 19.6 mm  
nominal

Depth of field: 1.5 mm maximum  
from imager window

## Interfaces

Host interface: 3.3V serial, USB HID  
or USB keyboard output

## Mechanical

Size excl. flanges (WxDxH): 36.3 x  
22.7 x 18.5mm

Body: Black PC/ABS

Weight: 16g

## Power

Input voltage: 3.3V +/-5%

Current consumption:

Max: <120mA

Idle: <50mA

Sleep: <30mA

Suspend: <10mA

## Connection

Connector: 12-way, 0.5 mm pitch  
flat flexible ribbon (FFC); mating  
connector and cable available on  
request

## Environmental

Temperature:

Operating: 0°C to 50°C

Storage: 0°C to 60°C

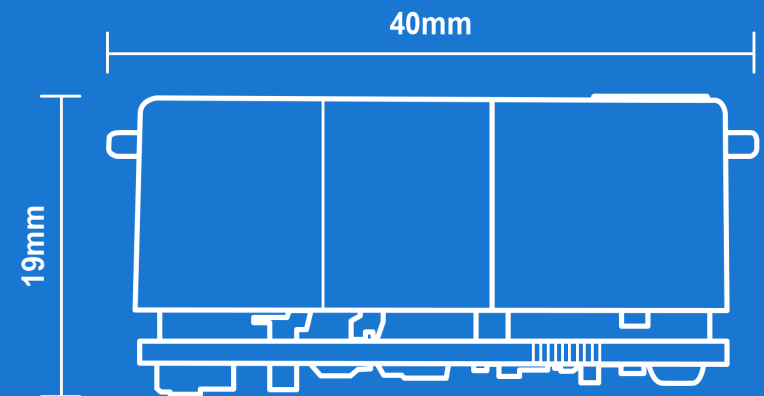
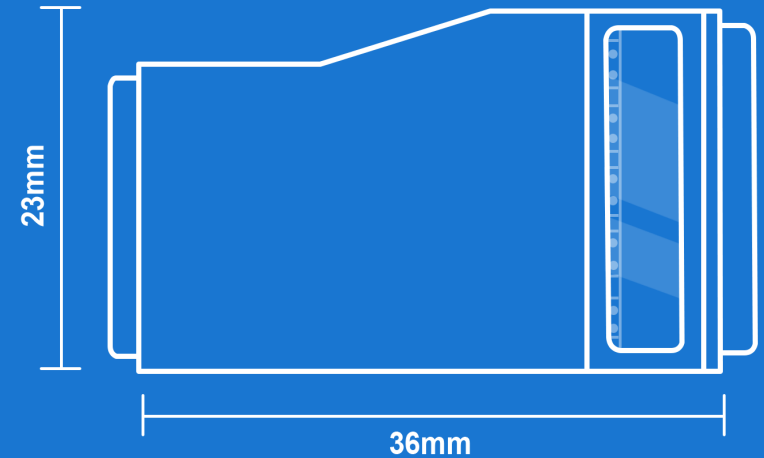
## Approvals

Safety: EN 60950-1: 2006

EMC: FCC 47CFR Part 15 Class A

EN 55022: 2006 + Amd 1: 2007

EN 55024: 1998 + Amd 1: 2001 +  
Amd 2: 2003



## Get In Touch

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