

## TICKET READERS

# ATR110

2D Barcode Reader with NFC option

### Compact and Fast

The ATR110 is a compact and fast barcode reader with optional NFC contactless capabilities. This 'one-box' solution helps process a wide range of electronic ticketing across a variety of media.

The device is designed to read all popular linear, PDF417 and 2D barcode symbologies, including QR and Aztec codes, from smartphones, tablets and printed paper documents. The ATR110's advanced recognition barcode imager is omnidirectional and has near-zero latency. It captures barcodes within a fraction of a second of presentation in any orientation.



### Mobile Ticketing

As an option, the device will also support mobile ticketing and mobile wallet payment systems for NFC-enabled smartphones and tablets, as well as reading smartcards, credit cards and debit cards.



### Intuitive To Use

This responsive, intuitive to use device is designed to be operated by untrained members of the public. Additional user-friendly features include bright LED visual indicators and a programmable audio buzzer to confirm successful data capture.

Its rugged, vibration and shock resistant construction, with no moving parts, enables the reader to withstand years of frontline, public use.



## Device Features

### Connection Types

- USB\*
- RS232\*

### Technology

- NFC/RFID\*
- QR/Barcode

Optional\*

### Features

#### Reads From Any Media

Reads 2D, PDF417 and linear symbologies from any media

#### Interface Options

RS232 and USB (custom HID, keyboard or CDC serial)

#### Simple Software Upgrades

FLASH upgradeable software

#### User Feedback

Configurable LEDs (front, rear or both) and audible read confirmation

#### Popular Contactless Cards

NFC mobile ticketing and payment works with Mifare® (Classic®, Ultralight®), DESfire® and Calypso®

#### Simple Integration

Options for desktop, console, pole-mount and fixed-position kiosk installation

## Applications

- On-board Ticketing incl. buses, trams & ferries
- Automatic gate and turnstile entry
- Payment via virtual storecard & storage of eReceipts
- Self-service kiosks
- Real-time, customised marketing promotions
- Airport check-in, security lanes and boarding gates
- Loyalty programmes

## Barcode Symbologies Read

Linear: EAN, UPC, Code 2 of 5, Interleaved 2 of 5, IATA 2 of 5, Code 39, Code 128

2D: IATA resolution 792, PDF417, Aztec, DataMatrix and QR codes

Media types: Will read: smartphone, tablet and smartwatch displays and paper documents and tickets.

Interface options: Non-NFC version can be single cable USB or Serial

## Contactless Reader

Supported media: ISO14443 type A and B cards (Java cards); max baud 424K (extendable to 848K)

Mifare UL, Classic 1K, Classic 4K, UL-C, Mifare Plus; max baud 106K

Operating frequency: 13.56 MHz

Operating distance: 20 mm

PSAMs: 4 PSAMs; to be accessed via removable panel on underside of unit

## Mechanical

Size (WxDxH): 96 x 121 x 81mm

Weight: 443g (Without NFC); 573g (With NFC) incl. cables

Colour: Dark Grey

Glass: 3mm thermally toughened low-iron Conturan IK07 (3 times 2J impact) - Anti-Reflective coating

Buzzer: loud (75dBa at 1m); volume controllable (config setting - can be adjusted by customer)

Indicator LEDs: 4 colours (green/amber/red/blue)

LED position: Front, rear or both

MTBF: 85,000 hours

Mounting options: horizontal, vertical and pole

## Power Supply

Via ext. 5v PSU

Current: Barcode Only: 480mA Peak, 300mA Standby

Current: Barcode & NFC: 650mA Peak, 500mA Standby

## Environmental

Temperature:

Operating: -25°C to 50°C

Storage: -30°C to 70°C

Humidity: 95% RH, non-condensing

Vibration: Random vibration using table 2 from ETSI EN 300 019-2-5 V3 2002

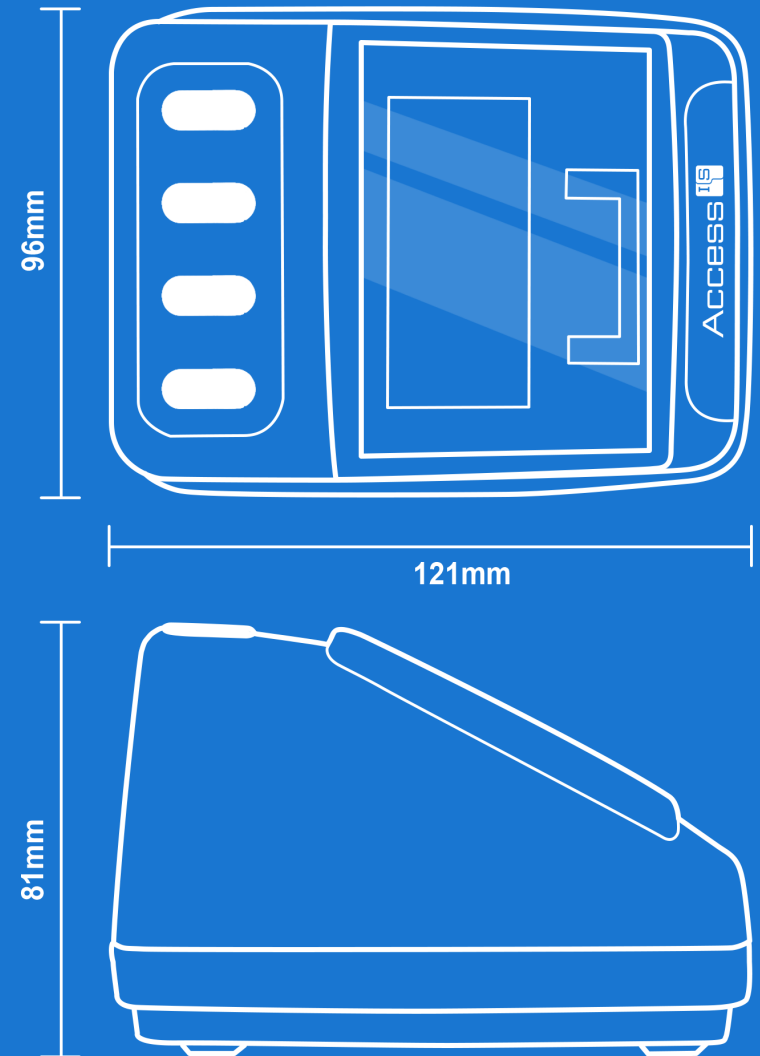
Shock: 3 x 30g 6ms half sine shocks in each direction of each axis carried out in accordance with ETSI EN 300 019-2-5 V3 2002, BS EN 60068-2-64:2008

Bump: 100 x 10g 11ms half sine bumps in each direction of each axis carried out in accordance with ETSI EN 300 019-2-5 V3 2002, BS EN 60068-2-64:2008

Ingress: IP54

## Approvals:

FCC 47CFR Part 15 Subpart B Class A, EN 55022 Class B, EN 55024, FCC 47CFR Part 15 Subpart C, ETSI EN 302 291, EN 60950-1



## Get In Touch

You can get in touch via our website at [access-is.com](http://access-is.com) or by phone and email:

+44 118 966 3333 [sales@access-is.com](mailto:sales@access-is.com)