



**Advanced Card Systems Ltd.**  
Card & Reader Technologies

# ACR330-A Validator with QR code Scanner

Technical Specifications V0.08.00





## 1.0. Technical Specifications



### Processor

ARM Cortex-A8 1GHz Processor

### Operating System

Linux 4.4

### Memory

Flash ..... 4GB (Available space for user: 900mb)

RAM ..... 512 MB

Tamper Protected RAM ..... 32KB (for sensitive data storage with API provided)

### Power

Power Source..... 9 V – 36 V

SuperCap Valid Time ..... 5 seconds with full function after main power is removed

### Connectivity

USB Host ..... 2.0 Full Speed

Serial Port ..... RS-232 x 1, RS-485 x 1

\*GPS ..... Supported with Internal or external antenna

Wi-Fi..... IEEE 802.11 b/g/n

\*Cellular ..... 4G/3G/GPRS

Ethernet ..... Built-in 10/100-base-T Ethernet

Bluetooth..... Bluetooth 4.0 Dual Model

### Contactless Smart Card Interface

Standard ..... ISO 14443 A & B, Parts 1-4, MIFARE Classic®, MIFARE DESFire®, MIFARE Ultralight®, MIFARE Ultralight C®, MIFARE Plus®, Felica, Calypso

Protocol..... MIFARE Classic Card Protocols, T=CL

Operating Distance ..... Up to 50 mm

Operating Frequency ..... 13.56 MHz

### SAM Card Interface

Standard ..... ISO 7816 Class A, B and C (5 V, 3 V, 1.8 V), T=0 and T=1

SAM Card Slots..... 4 ID-000 slots

Card Connector Type..... Contact



**Built-in Peripherals**

Display .....	5.5 inch with 4 LED Status Indicators
LCD Touchscreen .....	4.3 inch TFT-LCD, 480 x 272 Colors
Touch Panel.....	Capacitive Type
Buttons.....	4 back-lit buttons
Audio.....	3W Speaker, Buzzer
.....	Around 80 dB in 1 m distance
Buzzer.....	Supported
LED Transaction Indicators.....	Front: Blue, Orange, Green, Red
.....	Back: Green, Red
Memory expansion slot.....	Supports MicroSD memory card up to 32 GB
Temperature Sensor .....	Supported

**\*Barcode Scanner**

Linear.....	Code 128, EAN, Code 39, UPC, Code 2 of 5, Interleaved 2 of 5, Codabar, etc
2D .....	PDF417, Data Matrix, QR Code
Illumination.....	White LED
Materials .....	Paper, Mobile phones and Tablets

**Other Features**

- Firmware Upgradable
- Tamper Switch (internal anti-intrusion detections and protection)
- Real-time Clock

**Physical Specifications (Main Body)**

Main Body Dimension .....	245 mm (H) x 135 mm (W) x 91mm (T)
Case Color .....	Grey and Black
Weight.....	1.08kg

**Physical Specifications (Main Body + \*Back Mount)**

Main Body Dimension .....	245 mm (H) x 135 mm (W) x 159mm (T)
Case Color .....	Black
Weight.....	1.88kg
Pole Supported .....	31mm, 32mm, 35mm (Both Vertical and Horizontal)

**Operating Conditions**

Operation Temperature.....	-20 °C – 60 °C
Humidity .....	15% – 95 %, non-condensing
Shock and Vibration .....	Military Standard MIL-STD-810
Protection from dust & water.....	IP54

**Certifications/Compliance**

EMV®/PBOC Contactless Level 1, MasterCard® Contactless, Visa payWave®, CE, FCC, RoHS 2

\*Optional



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