

ECS-122NFC

BARCODE SCANNER WITH NFC READER

The ECS-122NFC Barcode Scanner is a compact, embedded scanning solution combining barcode and NFC technologies in one device.

Designed for modern contactless systems, it enables fast and secure identification across kiosks, terminals, and access control points. Its flexible interfaces and robust performance make it ideal for demanding environments.



FEATURES

- Integrated NFC Reader supporting Type A/B cards (optional)
- High-performance CMOS-based 1D and 2D barcode scanner
- Reads QR codes, Micro QR, PDF417, Data Matrix, and more
- Strong ambient light immunity up to 100,000 lux
- Multi-interface support: USB, optional RS232
- Compact size ideal for embedded and kiosk installations
- Wide operating temperature range for indoor and outdoor use

ADVANTAGES

- Enables secure and fast contactless identification
- Reduces hardware complexity by combining multiple technologies
- Ideal for continuous operation in high-traffic environments
- Easy integration into existing system architectures
- Designed for modern self-service and automation use cases

INDUSTRY VERTICALS

The ECS-122NFC Barcode Scanner is well suited for multiple industries:

- **Access Control Systems** – secure badge, QR, and NFC-based entry validation
- **EV Charging Stations** – user authentication and session activation
- **Self-Service Kiosks** – ticketing, check-in, and payment identification
- **Parking & Ticketing Terminals** – fast barcode and QR code scanning for entry and exit control



ECS-122NFC BARCODE SCANNER WITH NFC READER

Capability

CMOS	640 x 480 pixels	
Scanner LED	White Light LED (6500K)	
2D Barcode	PDF417, MicroPDF417, Data Matrix, Maxicode, QR Code, Micro QR, Aztec, Haxin etc.	
1D Barcode	Interleaved 2 of 5, ISBN, Code 93, Code 11, UCC/EAN-128, GS1 Databar, Matrix 2 of 5, Industrial 2 of 5, Code 128, EAN-13, EAN-8, Code 39, UPC-A, UPC-E, Codabar, Standard 2 of 5, MSI-Plessey, GS1 composite code, ect.	
NFC	Swipe module support 13.56Mhz contactless IC card reading, Support Type A/B card reading (Optional)	
OCR	OCR-B (Customization)	
2D Resolution	≥5 mil	
1D Resolution	≥5 mil	
Reading Distance	UPC-A 13mil	20-120 mm
Contrast	≥20%	
Barcode Sensitivity	Tilt ±55°, Deflection ±55°, Rotation 360°	
Angle Range	Diagonal 60°	
Motion Tolerance	≥1 m/s	

Physical Characteristics

Interface	USB,TTL3.3V,RS232 Optional RS232, RS485
Dimensions	66.4 mm (W) x 77.8 mm (D) x 44.7 mm (H)
Weight	80 g
Input Voltage	DC 5V, Optional 5V-16V
Currency	500mA

Environmental Characteristics

Working Temperature	-20°C ~ +60°C
Storage temperature	-40°C ~ +70°C
Working Humidity	5% ~ 95% (non-consending)
Ambient Light level	0 ~ 100,000 LUX
Drop	1.2 m drops

Part Number

ECS-122NFC Barcode Scanner

23101283



Model ECS 122NFC 
 DC 5V --- 500mA ECS2511000001
 CE MADE IN CHINA FC