

NFC 读卡 · 嵌入式安装 · 一维/二维码识读

XL-F21-NFC NFC 嵌入式二维识读模组

XL-F21-NFC NFC Embedded 2D Reading Module

NFC 读卡

640 × 480 CMOS

≥ 7 mil

识读景深 0 ~ 100 mm

韦根 / USB / RS232

65 × 61.5 × 31 mm

01 NFC 读卡

NFC Card Reading

支持 Mifare 系列兼容卡，ISO/IEC14443A 标准卡，NFC 手机。支持连续读卡与命令读卡，可添加前后缀、结束符。

Supports Mifare-compatible cards, ISO/IEC 14443A standard cards, NFC phones. Continuous or command card reading with prefix / suffix support.

02 解码能力强

Strong Decoding Ability

内嵌高性能处理芯片，国际先进的核心算法，数据处理准确可靠。

Embedded high-performance processing chip with internationally advanced core algorithms for accurate, reliable data processing.

03 识读精度高

High Identification Accuracy

采用专业传感器，景深范围广、灵敏度高、印制对比度要求低。

Professional sensor with a wide depth of field, high sensitivity and low print-contrast requirements.

04 专为自助设备嵌入式设计

Designed for Kiosk Embedded

嵌入式安装，适配自助终端、闸机、储物柜等设备；支持指令与自动扫描等多种识读模式。

Embedded mounting for kiosks, turnstiles and lockers; supports command-triggered and automatic scanning modes.



斜前视角 · 扫描窗口与安装耳 (Oblique View)



正面视角 · 扫描窗口居中 (Front View)



背面安装面 · 4 个固定孔 (Rear Mounting Face)

应用场景 Application Scenarios

该嵌入式二维识读终端可扫描各类二维码，广泛适用于自助终端票证、物流、金融、交通运输、医疗卫生等领域，满足各类用户快速识读的业务要求。

This embedded 2D reading terminal scans all types of two-dimensional codes. It is widely used for self-service terminals and tickets, logistics, finance, transportation, medical & health care and other fields, meeting the fast-reading requirements of all kinds of users.

XL-F21-NFC NFC 嵌入式二维识读模组 NFC Embedded 2D Reading Module

产品特点 Product Features

- NFC 读卡：**支持 Mifare 系列兼容卡，ISO/IEC14443A 标准卡，NFC 手机。支持连续读卡与命令读卡，可添加前后缀、结束符。
Supports Mifare-compatible cards, ISO/IEC 14443A standard cards, NFC phones. Continuous or command card reading with prefix / suffix support.
- 支持制码多：**Code128、EAN-13、EAN-8、Code39、Code93、UPC-A 等一维条码，QR 码、GM 码、Data Matrix、汉信码、PDF417 等主流二维码
Reads 1D codes such as Code 128, EAN-13, EAN-8, Code39, Code93 and UPC-A, plus mainstream 2D codes such as QR Code, GM, Data Matrix, Chinese-Sensible Code and PDF417
- 识别速度快：**可以准确、快速识读条码信息，有效降低工作强度
Reads barcode information accurately and quickly, effectively reducing work intensity

- 解码能力强：**内嵌高性能处理芯片，国际先进的核心算法，数据处理准确可靠
Embedded high-performance processing chip and advanced core algorithms for accurate, reliable data processing
- 识读精度高：**采用专业传感器，景深范围广、灵敏度高、印制对比度要求低
Professional sensor with wide depth of field, high sensitivity and low print-contrast requirements
- 专为自助设备嵌入式设计：**嵌入式安装，适配自助终端、闸机、储物柜等设备
Designed for embedded mounting in kiosks, turnstiles, lockers and similar equipment

识读参数 / READING PARAMETERS

识读模式 Sensor	CMOS
分辨率 Resolution	640 × 480 pixels
识读码制 Symbologies	二维码： GM、MICRO QR、MICRO PDF417、QR Code、Data Matrix、汉信码 (Chinese-Sensible Code) 等 一维码： Code 128、EAN-13、EAN-8、Code39、Code93、UPC-A 等
识读精度 Precision	≥ 7 mil
识读景深 Reading depth	0 mm ~ 100 mm
打印对比度 Print contrast	≥ 30%
条码旋转灵敏度 Rotation	360° @ 0° Pitch and 0° Skew
条码倾斜灵敏度 Tilt	± 60° @ 0° Roll and 0° Pitch
条码偏转灵敏度 Deflection	± 60° @ 0° Roll and 0° Skew
环境光照度 Ambient light	0 ~ 100,000 LUX
照明 LED 光源 Illumination	可见发光二极管 (白色) Visible light-emitting diode (white)
指示 LED 光源 Indicator	无 No
接口 Interface	韦根 / USB 虚拟串口 / USB HID / RS232 串口 Wiegand / USB Virtual COM Port / USB HID / RS232
触发方式 Triggering	手动 / 自动 Manual / Automatic
提示方式 Prompting	蜂鸣器 Buzzer
设置方式 Setting	电脑在线设置 / 读码设置 Set by computer online / Reading code
接线定义 Pinout	PIN1 电源 DC 5-12V; PIN2 UART RX (TTL); PIN3 UART TX (TTL); PIN4 RX/B (RS232 / 485 选配); PIN5 TX/A (RS232 / 485 选配); PIN6 USB D-; PIN7 USB D+; PIN8 Decode EN (输入); PIN9 Decode LED (输出); PIN10 GND; PIN21 DC 电源 5-12V; PIN22 / PIN23 韦根 WG D0; PIN24 GND

NFC 参数 / NFC

NFC 读卡 NFC (optional)	支持 Mifare 系列兼容卡，ISO/IEC14443A 标准卡，NFC 手机。支持连续读卡与命令读卡，可添加前后缀、结束符。 Supports Mifare-compatible cards, ISO/IEC 14443A standard cards, NFC phones. Continuous or command card reading with prefix / suffix support.
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物理参数 / PHYSICAL

模组尺寸 Module size	65 × 61.5 × 31 mm
固定孔位 Mounting holes	44 × 58 mm
线缆长度 Cable length	选配 1.5 米 Optional 1.5 m
重量 Weight	100 g
安全等级 Safety grade	EMC: EN55022, EN55024; 电气安全: EN60950-1; 光照安全: EN62471:2008; 防水防尘: IP54

电气特性 / ELECTRICAL

输入电压 Input voltage	5 V
最大电流 Max current	240 mA
工作电流 Operating current	200 mA
待机电流 Standby current	30 mA
最大功耗 Max power	1.2 W
工作功耗 Operating power	1 W
待机功耗 Standby power	0.35 W

工作环境 / ENVIRONMENTAL

工作温度 Operating	-20°C ~ +60°C
储存温度 Storage	-40°C ~ +80°C
工作湿度 Humidity	5% ~ 95% (无凝结 / non-condensing)

规格如有更改，恕不另行通知 / Specifications subject to change without notice.