

# SM380 系列

SM380是一款用于OEM应用的高性能易于使用的条形码扫描模块

紧凑轻巧的外形，可轻易的被整合到OEM设备

高性能的蜂鸣器和可视的LED指示灯，为用户提供了直观的指示

支持多种主机接口，包括RS232, USB HID 和USB COM

支持用户定义的串口触发功能

同时支持外部触发扳机和串口触发

提供额外的OK和NG输出信号实现精准的读取控制

方便好用的测试模式有助于实现快速和最佳安装

支持目前最流行的一维及线性堆叠式条码

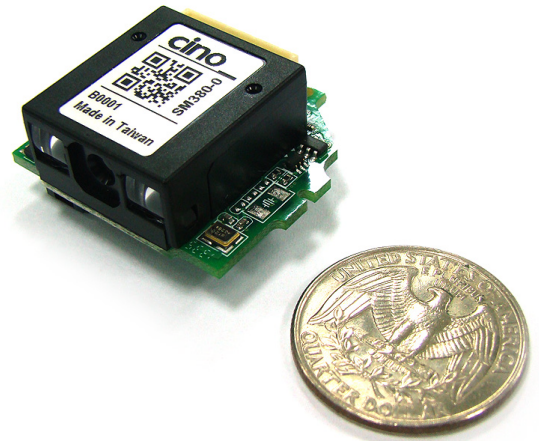
卓越的读取性能，对3mil条码的读取距离超过7cm

对普通条码的读取距离长达80cm

对低对比度、污损、印刷质量较差或受损的条码均有优越的读取性能

支持DataWizard Premium实现扫描数据处理和安全防护

适用于嵌入式条码扫描应用



采用最先进的FuzzyScan3.0影像技术和极其紧凑的设计结构，加上杰出的识读性能，兼具易于使用的设计和丰富的功能，使SM380 OEM扫描模块成为众多嵌入式扫描解决方案，如自助服务亭，游戏终端，价格核查机，门票读取和医疗实验室设备的理想选择。

#### 易于使用的设计

紧凑和易于安装的设计使它可灵活地集成到各种空间有限的OEM设备中。此外，它不仅配备有LED指示灯和可编程蜂鸣器，而且还支持多种主机接口，包括RS232，USB COM和USB HID。它的设计使具备一点扫描技术知识的系统集成商可容易地安装到OEM设备中。

#### FuzzyScan 3.0卓越的读取性能

凭借FuzzyScan3.0影像技术，SM380能够快速精确地读取那些已损坏、污损、打印质量较差以及低对比度条码。它对3mil条码的读取距离超过7cm，对普通条码的读取距离长达80cm。

#### 丰富和实用的功能

除了RS232和USB主机接口，SM380还支持OK和NG输出信号实现精确的读取控制。方便好用的测试模式有助于用户轻松找出最佳的读取位置。用户定义的串口触发功能使用户能够很容易地将扫描仪设备从其他品牌替换成Cino品牌，而无需修改主机软件。

# Specifications

## Performance Characteristics

Scan Pattern	Linear Image
Print Contrast	20% minimum reflective difference
Minimum Resolution	Typical 3 mil (Code 39, PCS 0.9)
Reading Range *1	Up to 24 inches on 100% UPC/EAN symbols Up to 31.5 inches on 20 mil Code 39
Light Source	630nm visible red LED
Scan Rate	Dynamic scanning rate up to 500 scans per second
Reading Direction	Bi-directional (forward and backward)
Pitch/Skew/Tilt	± 65° /65° /55°
Operating Modes	Trigger, Alternative, Level, Force, Presentation
Host Interfaces	RS232 serial USB HID (USB Keyboard) USB COM port emulation
User Interfaces	3 LEDs for power, Status, OK/NG indications Test button Programmable beeper
Configuration Setup	Bar code command, Serial command Windows utility - FuzzyScan PowerTool
Data Editing	Condensed DataWizard via bar code command Full-feature DataWizard via FuzzyScan PowerTool

## Supported Symbolologies

1D Linear	Code 39, Code 39 Full ASCII, Code 32, Code 39 Trioptic Code 128, UCC/EAN-128, Codabar, Code 11, Code 93 Standard & Industrial 2 of 5, Interleaved & Matrix 2 of 5 German Postal Code, China Postal Code, IATA UPC/EAN/JAN, UPC/EAN/JAN with Addendum Telepen, MSI/Plessey & UK/Plessey GS1 DataBar (formly RSS) Linear
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## User Environment

Operating Temperature	-10 °C to 50 °C (14 °F to 122 °F)
Storage Temperature	-40 °C to 70 °C (-40 °F to 158 °F)
Ambient Light Immunity	0 ~ 100,000 lux

## Physical & Electrical Characteristics

Dimension	30.2 mm (L) x 33.6 mm (W) x 15.5 mm (H)
Weight	9 g
Connector	15 pin interface connector
Mounting	2 screw holes (TP 1.7 screw, ø1.2mm x 4mm in depth)
Input Voltage	5VDC ± 10%
Current	Operating : Typical 165 mA @5VDC Standby : Typical 70 mA @5VDC

## Safety & Regulatory

Safety *2	LED Eye Safety IEC62471, Exempt Group
Environmental	Compliant with RoHS directive

1. The reading range is measured under Cino's test environmental condition.
2. Class 1M LED product. Do not view directly with optical instruments.