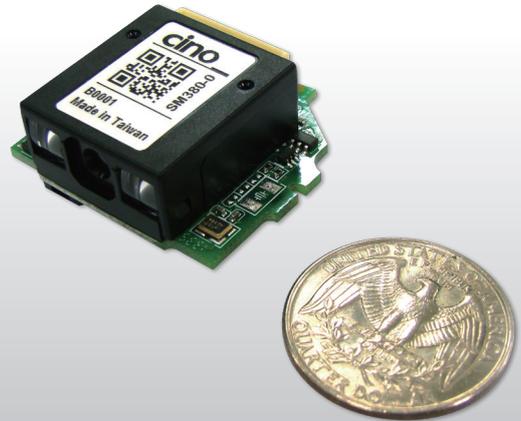


FUZZYSCAN SM380 Series

OEM Scan Module



An OEM scan module designed for ease of integration and accelerated development

The SM380 scan module is specifically designed for system integration, merging the advantages of FuzzyScan fixed-mount imagers into a small and compact unit. Supported by Cino's imaging platform, it offers exceptional reading performance on various 1D and stacked-linear barcodes, whether displayed on paper, plastic, or digital screens. This miniature scan module is easy to integrate into a wide range of devices, which helps to lower development costs and accelerate the product-to-market time. The SM380 brings exceptional value to OEM scanning applications.

- Compact and easy to integrate
- On-board beeper and LED indicators
- Supported host interfaces: RS232, USB HID and USB COM
- "Test" mode helps with scanner positioning
- Supports external trigger
- Supports user-defined serial command trigger
- Supports OK and NG output signals
- Reads various 1D and stacked linear barcodes
- Reads various challenging and problematic barcodes
- Advanced data formatting with DataWizard Premium
- System security development using Security Plus

Scan All Your Needs

Designed for Easy Integration

The SM380 is small in size, easy to mount, and supports multiple host interfaces: RS232, USB COM and USB HID. Moreover, it comes equipped with LED lights and a configurable beeper that provide clear status indications. Together, these features help to reduce integration efforts and accelerate the speed of product development.

Scanner Positioning Support

"Test" mode helps users find the best angle and distance to position their device for optimal scanning results. When this mode is activated, the SM380 will automatically perform a number of scans and output the ratio of successful reads. Different positions can thus be tested and compared to determine the most suitable one.

Capture Various Symbologies

This OEM scan module is built to capture a vast array of 1D and stacked symbologies, whether displayed on paper, plastic or a digital screen. Stacked linear barcodes that can be read include PDF, MicroPDF, Codablock, GS1 DataBar stacked and composite codes.

Ready for Challenges

Barcode labels encountered in the real world are often in a less than ideal condition, which can make them difficult to scan. Empowered by Cino's FuzzyScan imaging platform, the SM380 is able to read various challenging and problematic barcodes, for example: low contrast, damaged, smudged, or poorly-printed barcodes.

Exceptional Reading Performance

In addition to an exceptional scan range on regular barcodes, the SM380 also delivers superior readings on high-density barcodes. Its performance and capabilities make it a versatile scan module that is well-suited for diverse applications.

Other Practical Features

The SM380 can be activated through external sensors or user-defined serial commands. Moreover, its OK/NG signal output function allows for precise reading control.

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 34 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, Force, Level, Alternative, Presentation
Host Interfaces	RS-232 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	Command barcodes, serial commands, FuzzyScan PowerTool
Data Editing	DataWizard Premium

Physical & Electrical Characteristics

Dimensions	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

Supported Symbologies

1D Linear Barcodes	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 (formerly RSS) Linear
Stacked Linear Barcodes	GS1 DataBar Stacked, PDF417, Micro PDF417, Codablock F, Composite

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

Safety & Regulatory

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

1. The Reading Range are measured under Cino's test environmental condition.
2. Don't stare into the LED beam.