SM5700 Series

A self-contained area-imaging scan module for OEM barcode scanning applications

Compact and easy mounting design allowing for flexible integration

On-board beeper and LED indicators provide clear user feedback

Support RS232, USB COM and USB HID host interfaces

Useful test mode helps to identify the optimal mounting position

Flexible user-defined serial trigger command supported

Support serial command trigger and external trigger

OK and NG output signals supported for precise reading control

Read most of popular 1D, 2D barcodes and postal codes

Aggressive decoding ability on reading low contrast, soiled, poorly-printed or damaged barcodes
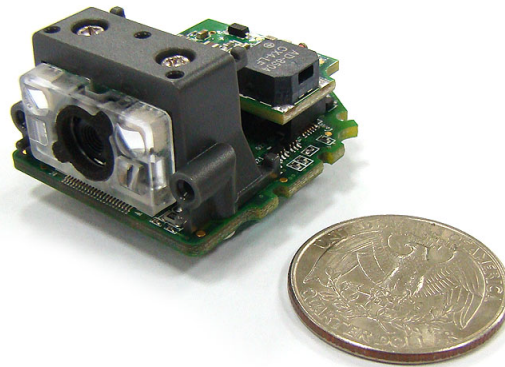
Digital image capture capability

High-density and standard range models are offered to satisfy various data capture needs

DataWizard Premium supported for scanned data manipulation and security protection

Ideal for embedded barcode scanning applications

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The FuzzyScan Area-imaging scan module SM5700 series is designed with system integration in mind. It combines all characteristics of FuzzyScan fixed-mount scanner in a small and compact package. SM5700 uses the latest FuzzyScan 3.0 imaging technology for outstanding reading performance on most 1D and 2D barcodes. Moreover, thanks to the miniature and ease-of-integration design, the system designers can integrate it into various automated or semi-automated devices easily with little expertise in scanning technology. It provides a superior cost-performance solution for OEM embedded barcode scanning applications. It lowers customer's development costs and accelerates product time to market.

Compact and Easy-to-Integrate Design
By its compact and easy-mounting design, SM5700 series can be integrated into various space-limited OEM devices. Moreover, it's equipped with intuitive LED indicators and user-configurable beeper for clear operation status indication. The SM5700 series supports major host interfaces including RS232, USB COM and USB HID. By these value-added features, SM5700 series makes integration efforts minimized and profit maximized.

FuzzyScan 3.0 Outstanding Reading Performance
Powered by FuzzyScan 3.0 Imaging Technology, SM5700 series provides superior reading performance on most popular 1D, 2D barcodes and post codes. Besides, it not only features digital image capture capability, but also can read barcodes which are damaged, smudged, poorly-printed, laminated or at low contrast on physical hard-copy paper or LCD screen accurately.

Useful Features and Functionality
The test mode helps system integrator to identify the most optimal mounting position easily and quickly. SM5700 supports five operation modes, allowing for trigger or triggerless operations. Moreover, it can be triggered remotely through the input of serial command or external sensor. The OK/NG signal output function helps more precise reading control.

Specifications

Performance Characteristics

Scan Pattern	Area Image
Print Contrast	20% minimum reflectance difference
Light Source	Aiming Pattern : 630nm LED Illumination : 630nm LED
Min. Resolution	**SR Model** 4 mil Code 39 7 mil DM **HD Model** 3 mil Code 39 5 mil DM
Roll, Pitch, Skew	Roll: 360˚; Pitch: ± 75˚; Skew: ± 65˚
Motion Tolerance	Up to 25 inch/63.5 cm per second

Reading Range *1

SR Model		
5 mil (0.13mm) C39	6.3-17.3 cm	(2.5"- 6.8")
13 mil (0.33mm) UPC/EAN	5.3-40.3 cm	(2.1" - 15.9")
10 mil (0.25mm) DM	5.3-17.8 cm	(2.1" - 7")
HD Model		
3 mil (0.07mm) C39	5.3-10.3 cm	(2.1" - 4.1")
5 mil (0.13mm) C39	5.3-13.3 cm	(2.1" - 5.2")
13 mil (0.33mm) UPC/EAN	4.8-18.8 cm	(1.9" - 7.4")
5 mil (0.13mm) DM	5.8-11.3 cm	(2.3" - 4.5")
10 mil (0.25mm) QR	5.8-10.3 cm	(2.3" - 4.1")

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
Image Capture	Graphic Format : BMP, JPEG, TIFF, PNG

Supported Symbologies

1D Linear Codes	Code 39, Code 39 Full ASCII, Code 32, Code 128, GS1-128, Codabar, Code 11, Code 93, Standard & Industrial 2 of 5, Interleaved & Matrix 2 of 5, IATA, UPC/EAN/JAN, UPC/EAN/JAN with Addendum, Telepen, MSI/Plessey & UK/Plessey , GS1 DataBar, Linear & Linear Stacked
2D Codes	PDF417, Micro PDF417, Codablock F, Code 16K, Code 49, Composite Codes, DataMatrix, MaxiCode, QR Code, Aztec, MicroQR
Postal Codes	Australian Post, US Planet, US Postnet, Japan Post Dutch KIX code, Intelligent Mail, British Post

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	38.0 mm (L) x 33.6 mm (W) x 18.8 mm (H)
Weight	15 g
Connector	15 pin interface connector
Mounting	3 screw holes (ø1.7mm x 3mm in depth)
Input Voltage	5VDC ± 10%
Current	Operating : Typical 285 mA @5VDC Standby : Typical 160 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.

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