FUZZYSCAN SE390 Series

OEM Scan Engine



A miniature scan engine that brings top performance and value to OEM applications

The SE390's outstanding capabilities and ultra-compact design are ideal for a wide range of OEM applications. Empowered by the FuzzyScan imaging platform, it easily captures a variety of 1D and stacked barcodes, whether displayed on paper, plastic or digital screens. This scan engine also provides superior motion tolerance, as well as a reading speed of up to 800 scans per second. The SE390 delivers the best value in its class, offering ease of integration along with exceptional scanning performance.

- High speed scanning, up to 800 scans per second
- Ultra-small and lightweight
- Easy to integrate
- Supports GS1 DataBar, PDF, MicroPDF and composite codes
- Superior readings on 3 mil barcodes, with a depth of field of over 3"
- Exceptional readings on low contrast, smudged, and damaged barcodes
- Superior motion tolerance for rapid captures of moving barcodes
- Supports various host interfaces: UART, USB HID and USB COM
- Low power consumption

Scan All Your Needs

Capture Various Symbologies

This OEM scan engine 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 SE390 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 SE390 also delivers superior readings on high-density barcodes. Its performance and capabilities make it a versatile scan engine that is well-suited for diverse applications.

Miniature, Lightweight, Easy-to-Integrate

Ultra-compact and lightweight, the SE390 can be easily integrated into various portable or stationary devices, even those with space constraints, such as hand-held or fixed scanners, mobile computers, or PDAs.

SPECIFICATIONS

Performance Characteristics

Optical System	High-performance linear imaging engine
Print Contrast	20% minimum reflective difference
Minimum Resolution	Typical 3 mil (Code 39, PCS 0.9)
Reading Range *1	Up to 16.2 inches on 100% UPC/EAN symbols Up to 24.3 inches on 20 mil Code 39
Light Source	630nm visible red LED
Scan Rate	Dynamic scanning rate, up to 800 scans per second
Reading Direction	Bi-directional (forward and backward)
Scan Angle	42˚
Pitch/Skew	± 65˚/ ± 55˚
Operating Modes	Low power, Trigger, Force, Level, Alternative, Presentation
Host Interfaces	UART (TTL Serial); or USB (HID : USB KB / VCOM : COM port emulation)
Configuration Setup	Command barcodes, API serial command
Data Editing	DataWizard

Physical Characteristics

Dimensions	23.0 mm (D) x 21.0 mm (W) x 11.9 mm (H) 0.91 in. (D) x 0.82 in. (W) x 0.47 in. (H)
Weight	6 g
Input Voltage	3.3VDC ± 10%
Current	Scanning : Typical 165 mA @3.3VDC Standby : 80 µA @3.3VDC
Connector	12-pin low profile

Supported Symbologies

1D Linear Codes	Code 39, Code 39 Full ASCII, Code 32, Code 39 Trioptic, Code 128, GS1-128, 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
Linear-stacked *2	PDF417, Micro PDF417, Composite Codes, Codablock F, Code 16K, Code 49, Linear-stacked
Postal Barcodes	Australian Post, US Planet, US POSTNET, Japan Post, Posi LAPA 4 State Code, German Post, British Post, Intelligent Mail, Korean Post, Dutch KIX Post, China Post

User Environment

Operating Temperature	-20˚C to 60˚C (-4˚F to 140˚F)
Storage Temperature	-40˚C to 70˚C (-40˚F to 158˚F)
Humidity	5% to 95% related humidity, non-condensing
Ambient Light Immunity	0-100,000 lux

Safety & Regulatory

Safety *3	LED Eye Safety IEC62471, Exempt Group
Environmental	Compliant with RoHS 2.0 and REACH

1. The reading range is measured under the manufacturing preset test environmental conditions.
2. Codablock F, Code 16K, and Code 49 are available upon request.
3. Don't stare into the LED beam.

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