FUZZYSCAN SE6750

1D/2D Decoded OEM Scan Engine

Deluxe, miniature decoded 1D/2D imaging engine

The SE6750 is a deluxe decoded 1D/2D imaging engine that delivers outstanding reading performance in an ultra-compact form factor. Thanks to its integrated decoder, the need for a separate decoder board or software running on host is eliminated, resulting in significant cost savings of development and software license.

Powered by Cino's exclusive FuzzyScan imaging technology, the FuzzyScan SE6750 can read most of real-world problematic and challenging barcodes. Equipped with a high resolution global-shutter image sensor, the SE6750 boasts excellent reading performance and motion tolerance.

Whether you are developing POS terminal, access control system, ticket validator, payment kiosk, parcel locker, auto vending machine, ATM, entry gate, you can count on Cino's SE6750 to provide a costeffective solution and an optimal user experience.

- Miniature design for easy integration
- Powered by AI technology and deep learning
- Integrated decoder for maximum cost savings
- Read most challenging and problematic barcodes
- Choice of USB or Serial host interface
- Operating temperature from -30°C to 60°C
- Inherit Cino's powerful FuzzyScan DNA

Maximum Flexibility and Cost-Saving

The SE6750 is a decoded 1D/2D engine crafted with adaptive mechanisms and versatile features. It not only provides exceptional flexibility for diverse embedded applications, but also significantly reduces the development costs of your products.

Fit-anywhere and Flexible Design

Its miniature design allows an “easy fit” into a wide range of product designs. As a member of the SE6000 family, it shares the same physical dimensions and mounting mechanism among the family allowing effortless interchangeability. To fulfill different host interface needs, you can select either USB or Serial model.

Maximum Cost Saving

Thanks to its integrated decoder, you do not need to use a separate decoder or software license for decoding. This not only reduces substantial engineering efforts and development costs, but also accelerates the time to market of your new products.

Scan All Your Needs

Powered by Cino’s exclusive FuzzyScan imaging technology, the SE6750 is capable of reading a vast array of problematic and challenging real-world barcodes, including wrinkled, dirty, soiled, or watermark barcodes that are displayed on paper, plastic, metal, digital screens, and curved surfaces.

FUZZYSCAN DNA

Cutting Edge Imaging Technology

Powered by AI technology and deep learning, Cino's exclusive FuzzyScan imaging technology delivers unrivaled readability and motion tolerance, as well as accuracy across most challenging and problematic real-world barcodes.

Unsurpassed Reading Performance

The SE6750 brings exceptional reading performance and motion tolerance on both regular and difficult-to-read barcodes. The snappiness also dramatically improves user's experience. The first-time, every-time scanning makes SE6750 ideal for a wide range of applications.

Enterprise-class Reliability

All of Cino's products are designed with enterprise-class reliability in mind. Leveraging Cino's proven technology, the SE6750 offers the highest quality that you can trust, whether in terms of reading performance or durability.

Durable Design Assures Longevity

The SE6750 is well-constructed and sturdy. It supports an excellent Shock rating and a wide operating temperature range from -30°C to 60°C (-22°F to 140°F), delivering the required durability for automation, healthcare, commercial and industrial applications.

Proven Technology You Can Trust

When you choose the SE6750, you will find the peace of mind that comes from Cino's high quality data capture solutions.

Value Beyond Measure

FuzzyScan DNA is a collection of useful features with added-values available for every Cino imager at no additional cost. These exclusive features not only elevate your user experience, but also help you overcome various technical limitations beyond barcode scanning.

DataWizard

A powerful feature that allows advanced formatting on GS1 and UDI data. By using data scripts, it is able to perform complex data processing, such as US driver's license parsing

iCode

A useful macro command barcode for enabling one-step configuration with a single scan

Multilingual Edge

A comprehensive function for converting data output into your desired languages

Smart Scene

A series of preset configurations for easy adaptation to specific scenarios

Security Plus

A programmable security script for preventing unauthorized access

FuzzyScan Enabling Solution

A suite of software utilities and SDK that enables easy integration, management, and deployment of scanners

SPECIFICATIONS

Performance Characteristics

Image Sensor	1120 x 768 Pixels
Print Contrast	18% minimum reflective difference
Light Source	Warm white LED
Imager Field of View	40.0˚H x 28.1˚V
Min. Resolution	3 mil Code 39 5 mil DM/QR
Reading Range *1	13 mil (0.33mm) UPC/EAN up to 16.7"
Roll, Pitch, Skew	Roll: 360˚; Pitch: ± 75˚; Skew: ± 65˚
Motion Tolerance	Steadily read over 282 cm/s, with max. speed up to 650 cm/s (256 in/s)
Configuration Setup	FuzzyScan Barcode commands FuzzyScan iCode FuzzyScan PowerTool
Host Interfaces	TTL Serial (UART) or USB
Data Processing	DataWizard
Image Capture	BMP format

Physical & Electrical Characteristics

Dimensions	14.9 mm (D) x 22.0 mm (W) x 11.9 mm (H) 0.59 in.(D) x 0.87 in.(W) x 0.47 in.(H)
Weight	3.8g
Connector	12-pin ZIF connector
Input Voltage	3.3V~5.5Vdc
Current	Operating: Typical 210mA@5Vdc Typical 230mA@3.3Vdc Idle: Typical 95 mA@5Vdc Typical 110 mA@3.3Vdc

Decode Capabilities

1D Linear Codes	Code 39, Code 39 Full ASCII, Code 32, Code 128, GS1-128, Codabar, Code 11, Code 93, GS1 DataBar, Standard & Industrial 2 of 5, Interleaved & Matrix 2 of 5, IATA, UPC/EAN/JAN, UPC/EAN/JAN with Addendum, Telepen, MSI/Plessey & UK/Plessey
2D Codes *2	PDF417, Micro PDF417, Composite Codes, DataMatrix, MaxiCode, QR Code, MicroQR, Aztec, Codablock F, Code 16K, Code 49, Chinese Sensible (Han Xin) Code
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	-30°C to 60°C (-22°F to 140°F)
Storage Temperature	-40˚C to 70˚C (-40˚F to 158˚F)
Humidity	5% to 95% relative humidity, non-condensing
Ambient Light Immunity	0 ~ 100,000 Lux

Safety & Regulatory

Safety *3	LED Eye Safety IEC62471, Exempt Group
Environmental	Compliant with RoHS directive

1. The Reading Range are measured under Cino's test environmental condition.
2. Codablock F, Code 49, and Chinese Sensible (Han Xin) Code are available upon request.
3. For safety reasons, please refrain from staring directly into the LED beam.