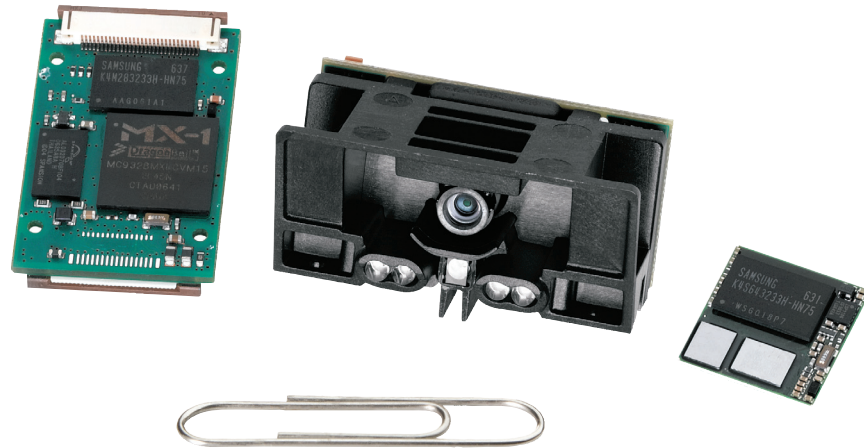




Symbol SE6700

OEM scan engine



FEATURES

1.3 megapixel camera
Superior high resolution image capture

Built-in illumination
Performs in any lighting condition

Simple serial interface (SSI) on Serial & SNAPi on USB
Provides advanced communications between imager and host

Optional software developer kit (SDK)
Enables rapid creation of applications using familiar development platforms — Microsoft® Windows® 98, 2000 and XP

2D CMOS sensor
Provides comprehensive data capture, including bar codes, signatures, documents and other black and white images

Maximum data capture flexibility

Empower your devices with comprehensive data capture capabilities with the Symbol SE6700 — from 1D and 2D bar code scanning to the capture and transmission of signatures, documents and other images. With the Symbol SE6700, you can create a single flexible device that can provide the functionality of a bar code scanner, document scanner and camera, delivering real value to your customers — fewer devices to purchase and manage translates into reduced capital and operational costs. Two models offer different focal distances, providing a flexible reading range to meet the needs of many applications. The standard model is designed primarily for bar code scanning, while the document capture (DC) model is capable of reading bar codes as well as capturing 8.5 in. x 11 in. and A4-sized images — ideal for documents and larger graphics.

Easy-to-use high quality scanning

The Symbol SE6700 delivers operational simplicity and high quality imaging in nearly any environment. Customers as well as employees can capture bar codes and other images with point and shoot simplicity — the sharp framed aiming pattern eliminates errors and the need for training. Bar codes do not need to be aligned with the scanner, since the 360 degree omni-directional scanning delivers the accurate capture of any bar code regardless of presentation angle,

improving productivity and throughput. Built-in illumination enables the device to operate in any lighting condition, including bright sunlight and total darkness. And whether you are scanning a document or capturing a picture, the 1.3 megapixel camera combines with Text Enhancement technology to provide high quality images as well as legible text — even for the smallest of type.

One engine — many applications

The Symbol SE6700 can simplify your development efforts — this single device provides the features and functionality required for many applications in a variety of markets. In retail, the higher resolution images are ideal for Optical Mark Recognition (OMR) applications on lottery machines and other self-serve kiosks. The ability to capture 2D bar code information, for example on a driver's license, provides instant verification of age and identity for the purchase of alcoholic beverages and controlled pharmaceuticals, as well as the ability to auto-populate credit or merchandise return forms. Government agencies and private enterprises can improve security and protect against unauthorized access with a quick scan of the bar code on an employee badge. And last, the SE6700 can be integrated into fixed mounted equipment, enabling error proofing and track and trace applications in electronic manufacturing as well as advanced data capture in medical diagnostic systems and other laboratory equipment.

SPECIFICATION SHEET

SYMBOL SE6700
OEM scan engine

Omni-directional data capture

Eliminates need to orient bar codes and images with the device

Unique aiming frame

Ensures accurate aiming for first-time every-time data capture

Flexible decoder options

Plug and play printed circuit board (PCB) or ball grid array (BGA) for maximum product design capability

Text Enhancement software

Ensures legibility of very small text

Improve your time to market — and your margins

The Symbol SE6700 will improve your business agility, allowing you to bring your products to market faster and more cost-effectively. Whether you are developing new products or upgrading existing equipment with new capabilities, the common control interfaces utilized in Motorola's family of Symbol OEM scan engines will increase the velocity and reduce the costs of your development efforts,

improving your profitability. Multiple on-board interfaces pave the way for easy integration by offering both TTL RS232 and USB.

For more information about the Symbol SE6700, access our global contact directory at www.symbol.com/contact or visit us on the web at www.symbol.com/SE6700

Symbol SE6700 Specifications

Physical Characteristics

Dimensions:	1.02H x 1.77W x 1.25D in. 26H x 44.9W x 30.8D mm
Weight:	0.6 oz./17 g
Interface:	Camera port on a 30 pin zif connector

User Environment

Ambient Light:	Immune to normal artificial indoor and natural outdoor sunlight
Operating Temperature:	-4° to 131°F/-20° to 55°C
Storage Temperature:	-40° to 158°F/-40° to 70°C
Operating humidity:	95% RH, non-condensing at 55°C
Storage humidity:	85% RH, non-condensing at 70°C
Shock:	2,000 G
Power:	Camera/Aim Input Voltage: 3.3 VDC ± 10% Illumination Input Voltage: 5 VDC ± 10% Camera/Aim Operating Current: 140mA Illumination Current: 162mA typical

Regulatory

Laser Classification:	Intended for use in CDRH Class II/IEC 825 Class 1 devices
Electrical Safety:	UL, VDE, and CUL recognized component laser
Environmental:	RoHS compliant

Performance Characteristics

Field of View:	Horizontal: 43°; Vertical: 34°
Sensor Resolution:	1280 (H) x 1024 (V) pixels (1.3 Mega pixel)
Focal Distance from Front of Engine:	Standard Focus: 4.5 in/11.4 cm Document Capture Focus: 8 in / 20.3 cm
Aiming Element (VLD):	650 ± 5 nm
Illumination Element (LED):	630 ± 20 nm (LED)
Minimum Print Contrast:	Minimum 25% absolute dark/light reflectance measured at 650 nm
Ranges - 1D codes:	Standard Model 5 mil: Code 39 - 80% MRD: 2.5 - 7.0 (in) / 6.35 - 17.78 (cm) 7.5 mil: Code 39 - 80% MRD: 2.5 - 9.0 (in) / 6.35 - 22.86 (cm) 10 mil: I 2 of 5 - 2.5:1 - 2.3 - 9.5 (in) / 5.84 - 24.13 (cm) 13 mil: 100% UPC - 80% MRD: 2.5 - 10 (in) / 6.35 - 25.4 (cm) 20 mil: Code 39 - 80% MRD:

2.5 - 14.5 (in) / 6.35 - 36.83 (cm)

6.7 mil: PDF417 80% MRD:

3.0 - 6.8 (in) / 7.62 - 17.27 (cm)

10 mil: PDF417 80% MRD:

3.0 - 7.8 (in) / 7.62 - 19.81 (cm)

15 mil: PDF 417 - 80% MRD:

4.7 - 9.3 (in) / 11.94 - 23.62 (cm)

Document Capture Mode

5 mil: Code 39 - 80% MRD:

4.2 - 10 (in) / 10.67 - 25.4 (cm)

7.5 mil: Code 39 - 80% MRD:

2.5 - 14.3 (in) / 6.35 - 36.32 (cm)

10 mil: I 2 of 5 - 2.5:1 - 3.3 - 15.3 (in) /
8.38 - 38.86 (cm)

13 mil: 100% UPC - 80% MRD:

2.5 - 13 (in) / 6.35 - 41.40 (cm)

20 mil: Code 39 - 80% MRD:

2.8 - 23.0 (in) / 7.11 - 58.42 (cm)

6.7 mil: PDF417 80% MRD:

4.8 - 9.8 (in) / 12.19 - 24.89 (cm)

10 mil: PDF417 80% MRD:

4.0 - 12.7 (in) / 10.16 - 32.26 (cm)

15 mil: PDF 417 - 80% MRD:

4.7 - 15.3 (in) / 11.94 - 38.86 (cm)

Symbol PL6707 Decoder Specifications

Physical Characteristics

Dimensions:	BGA: 0.71H x 0.71W x 0.09D (in) BGA: 18 H x 18W x 2.26D (mm) PCB: 1.0H x 1.54W x 0.22D (in) PCB: 25.27H x 39.01W x 5.63D (mm)
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Performance Characteristics

Interface:	SSI on TTL serial on and SNAP1 over USB on a 30 ZIF pin connector
Symbologies:	<i>All major 1D bar codes</i> 2-D: MaxiCode, PDF417, DataMatrix, QR Code, Aztec & Composite Codes <i>Postal Codes:</i> US Postnet, US Planet, UK Postal, Australian Postal, Japan Postal
Image File Formats:	BMP, TIFF, JPEG
Power:	Input voltage: 3.3 VDC ± 10% Operating current: 100 mA (typical)
Programmable Parameters:	Power Mode, Trigger mode, Beeper tone, session time, focus control, camera control, image control, advanced data formatting, Document capture, Signature capture



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