



Symbol SE1524ER

OEM Scan Engines



FEATURES

High-performance scan engine with fuzzy logic for reading poorly printed and low contrast across the entire decode range

Offers excellent scanning performance on all types of 1D bar codes

Working range up to 45 ft./9.1 m for 100 mil reflective symbols

Enables advanced long range scanning capability for OEM devices

Reads 7.5 mil bar codes from 2 in. to 22 in.

Provides an extremely versatile working range

One of the best working ranges — near and far — in the smallest size

The Symbol SE1524ER extended range scan engine provides high-performance bar code scanning in the smallest possible package. It's built for OEM applications that require easy targeting and capture of bar codes from short or long distances such as in multi-level warehouse environments. Superior first-time read rates, working range, fuzzy logic technology and affordability all combine to deliver a versatile scan engine for your OEM applications. The Symbol SE1524ER is both durable and reliable to offer premium long-range scanning performance in the toughest environments.

Built for versatility and performance

The Symbol SE1524ER scan engine gives you one of the most impressive working ranges in the industry, with the ability to read from 2 inches to

22 inches on a 7.5 mil and over 40 feet on a 100 mil reflective label. Whether scanning pallet labels on warehouse racks or shipping labels on the dock, the Symbol SE1524ER is an excellent choice for those applications that require both long- and short-range scanning.

The Symbol SE1524ER also supports "Aim" mode, and its bright, 650 nanometer laser diode provides a highly visible scan line. The Symbol SE1524ER uses fuzzy logic decode processing for fast, accurate reading of the poorest quality bar codes. Together, these features ensure that users accurately target bar codes for easy, intuitive data capture.

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

SPECIFICATION SHEET

SYMBOL SE1524ER
OEM scan engines

Special "Aim" mode

Makes scanning from a distance easy and intuitive

650 nm bright laser diode scanning

Easy-to-see scan line is suitable for long distance

Metal chassis

Delivers the industry's highest shock rating for commercial, industrial or retail applications

Simple serial interface (SSI) software

Communication is easy between the scan engine software and the host

Supports 3.3V

Gives an extended life to your mobile applications with minimum power consumption

Single-board design

Compact, durable and reliable

Symbol SE1524ER Specifications

Physical Characteristics

Dimensions (max.):	.8H x 1.77W x 1.375D (in) 2.03H x 4.48W x 3.49D (cm)
Weight:	1.4 oz./40 g
Configuration:	decoded
Interface:	SSI Control over TTL Serial on a 12 pin ZIF connector

User Environment

Ambient Light:	Artificial: 450 ft. candles (4,844 Lux) Sunlight: 8,000 ft. candles (86,112 Lux)
Operating Temp.:	-22° to 140° F (-30° to 60° C)
Storage Temp.:	-40° to 158° F (-40° to 70° C)
Humidity:	5% to 95% non-condensing
Power:	Input Voltage: 3.3VDC ± 10% Scanning Current: 210 mA typical Standby Current: 60 µA max
Shock:	2,000 G

Regulatory

Laser Classification:	Intended for use in CDRH Class II and IEC Class 2 devices
Electrical Safety:	UL, VDE, and CUL recognized component laser
Environmental:	RoHS compliant

Performance Characteristics

Light Source:	Visible Laser Diode 650 nm
Scan Rate:	35 (± 5) scans/sec (bi-directional)
Scan Angle:	13.5° ± 0.7°
Scan Patterns:	Linear
Minimum Print Contrast:	Minimum 25% absolute dark/light reflectance measured at 650 nm
Symbologies:	All major 1D bar codes
Programmable Parameters:	Laser On Time, Aim Duration, Power Mode, Trigger Mode, Bi-directional Redundancy, Symbology Types/Lengths, Data Formatting, Serial Parameters, Beeper Tone, Scan Angle

Ranges - 1D codes:

75 mil: Code 39; 2.5:1 - 80% MRD: 2 - 22 (in) / 5.08 - 55.88 (cm)
10 mil: Code 39; 2.5:1 - 80% MRD: 4 - 34 (in) / 10.16 - 86.36 (cm)
15 mil: Code 39; 2.5:1 - 80% MRD: 5 - 71 (in) / 12.7 - 180.34 (cm)
20 mil: Code 39; 2.2:1 - 80% MRD: 5 - 96 (in) / 12.7 - 243.84 (cm)
55 mil: Code 39; 2.2:1 - 80% MRD: 15 - 180 (in) / 38.1 - 457.2 (cm)
70 mil reflective: Code 39;3:1 - 80% MRD: * - 367 (in) / * - 932.18 (cm)
100 mil reflective: Code 39;3:1 - 80% MRD: * - 542 (in) / * - 1376.68 (cm)

* = (near range on reflective bar codes determined by degree of reflectivity and width of bar code)



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