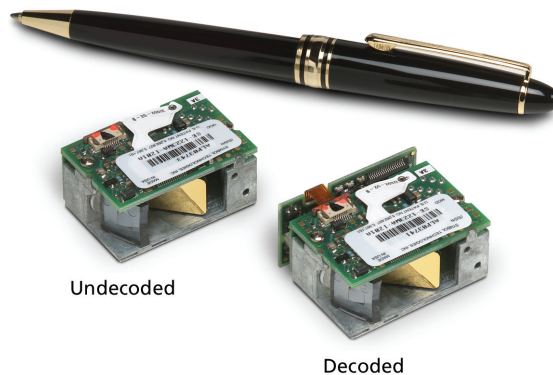




Symbol SE1200LR/SE1223LR

OEM Scan Engines



FEATURES

Working range up to 20 ft./6.1 m

High-performance long-range scanning for portable or fixed-mount OEM devices

650 nm bright laser diode

Easy to see scan line suitable for outdoor applications

Special "Aim" mode

Helps make scanning from a distance easy and intuitive

Wide temperature range, immunity to ambient light, and durable design

Ensures premium scanning performance in demanding environments

Superior long range scanning for OEM devices

The high-performance Symbol SE1200LR Long Range Scan Engine brings the benefits of bar code laser scanning to a variety of OEM devices. Now handheld computers, medical instruments, diagnostic equipment, lottery terminals, vending machines, robotics and countless other appliances can all be equipped with the leading-edge scanning technology and reliability that is available only from Motorola. The entire Symbol SE1200 Scan Engine Series — including the Long Range, High Performance, Wide Angle and Very High Density models — has been designed to provide the highest scanning performance in the smallest package possible. For added versatility, each engine is identical in size, allowing for fast, cost-effective interchangeability when upgrading or modifying your OEM device for specialized applications.

Get the data without getting close

Offering a working range out to 20 ft./6.1 m for 100 mil reflective symbols, the Symbol SE1200LR Scan Engine is the perfect solution for portable or fixed mount OEM devices performing long range scanning applications. Increase productivity in every environment where close proximity to bar codes is limited. Equipped with a 650 nm laser diode, the extra bright scan line helps make distance scanning easy and intuitive. The Symbol SE1200LR Scan

Engine also supports a special "Aim" mode allowing users to accurately target bar codes and capture data from across the floor or on raised warehouse pallets. Featuring a wide temperature range, high immunity to ambient light and a durable, shock resistant design, the Symbol SE1200LR delivers premium scanning performance in the most demanding environments, even outdoors. Measuring just 1.15 cubic inch, the Symbol SE1200LR Scan Engine's sleek design facilitates easy integration into your OEM device. Available in both undecoded and decoded (Symbol SE1223LR) versions, the Symbol SE1200LR Scan Engine Series puts our benchmark miniaturized scanning technology into your OEM device, adding value to your total solution.

Proven technology to enhance your solutions

With millions of installations worldwide, our OEM devices are proven to deliver high reliability and superior performance, ensuring the accurate and quick capture of data and images in your mission-critical applications and devices. In addition, an easy-to-integrate design and expert assistance from our world-class OEM support team enable you to bring your systems to market quickly and cost effectively. For more information about our scan engines access our global contact directory at www.symbol.com/contact or visit us on the web at www.symbol.com/oem

SPECIFICATION SHEET

SYMBOL SE1200LR/SE1223LR
OEM scan engines

Symbol SE1200LR/SE1223LR Specifications

SYMBOL SE1200LR (UNDECODED)

Physical Characteristics

Dimensions:	.76H x 1.51W x 1.0D (in) 19.3H x 38.35W x 25.4D (mm)
Weight:	1.19 oz./34 g
Configuration:	undecoded
Interface:	DPB on a 8 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 131°F (-30° to 55°C)
Storage Temp.:	-40° to 140°F (-40° to 60°C)
Humidity:	5% to 95% non-condensing
Power:	Input Voltage: 5.0 VDC ± 10% Scan Current: 72 mA typical Standby Current: 50 µA max
Shock Rating:	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:	23° ± 2°
Scan Patterns:	Linear
Minimum Print Contrast:	Minimum 40% absolute dark/light reflectance measured at 650 nm
Ranges - 1D codes:	10 mil: Code 39; 2.5:1 - 80% MRD: 11 - 24 (in) / 27.94 - 60.96 (cm) 15 mil: Code 39; 2.8:1 - 80% MRD: 7.5 - 39 (in) / 19.05 - 99.06 (cm) 20 mil: Code 39; 2.2:1 - 80% MRD: 7.5 - 48 (in) / 19.05 - 121.92 (cm) 40 mil: Code 39; 2.2:1 - 80% MRD: 10 - 90 (in) / 25.4 - 228.6 (cm) 55 mil: Code 39; 2.2:1 - 80% MRD: 10 - 120 (in) / 25.4 - 304.8 (cm) 70 mil reflective: Code 39; 3:1 - 80% MRD: 48 - 200 (in) / 121.92 - 508 (cm) 100 mil reflective: Code 39; 3:1 - 80% MRD: 60 - 240 (in) / 152.4 - 609.6 (cm)

SYMBOL SE1223LR (DECODED)

Physical Characteristics

Dimensions:	.76H x 1.51W x 1.38D (in) 19.3H x 38.35W x 35.05D (mm)
Weight:	1.33 oz./37.7 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 131° F (-30° to 55° C)
Storage Temp.:	-40° to 140° F (-40° to 60° C)
Humidity:	5% to 95% non-condensing
Storage Temp.:	-40° to 140° F (-40° to 60° C)
Humidity:	5% to 95% non-condensing
Power:	Input Voltage: 5.0 VDC ± 10% Scan Current: 115 mA typical Standby Current: 70 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:	23° ± 2°
Scan Patterns:	Linear
Minimum Print Contrast:	Minimum 40% absolute dark/light reflectance measured at 650 nm
Symbologies Supported:	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
Ranges - 1D codes:	10 mil: Code 39; 2.5:1 - 80% MRD: 11 - 24 (in) / 27.94 - 60.96 (cm) 15 mil: Code 39; 2.8:1 - 80% MRD: 7.5 - 39 (in) / 19.05 - 99.06 (cm) 20 mil: Code 39; 2.2:1 - 80% MRD: 7.5 - 48 (in) / 19.05 - 121.92 (cm) 40 mil: Code 39; 2.2:1 - 80% MRD: 10 - 90 (in) / 25.4 - 228.6 (cm) 55 mil: Code 39; 2.2:1 - 80% MRD: 10 - 120 (in) / 25.4 - 304.8 (cm) 70 mil reflective: Code 39; 3:1 - 80% MRD: 48 - 200 (in) / 121.92 - 508 (cm) 100 mil reflective: Code 39; 3:1 - 80% MRD: 60 - 240 (in) / 152.4 - 609.6 (cm)



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