



Symbol SE1200HP/SE1223HP

OEM Scan Engines



FEATURES

High performance scan engine

Excellent scanning performance on all types of bar codes including poorly printed and low contrast

Compact size/interchangeable form factor

Optimized for quick and easy integration at an affordable price

Zinc chassis provides minimum weight and durability

Industry's highest shock rating for commercial, industrial or retail applications

Simple Serial Interface software (SSI)

Easy communication between scan engine and the host

Supports 3.0-5.5 VDC

Minimum power consumption delivers extended life for portable applications

High performance scanning for portable and fixed mount OEM devices

The Symbol SE1200HP (High Performance) Scan Engine is a perfect choice for your OEM design. The Symbol SE1200HP brings the benefits of bar code laser scanning to all types of OEM devices. Now handheld computers, kiosks, 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 SE1200HP Scan Engine Series — including the High Performance, Long Range, 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.

Best in class scanning performance

The Symbol SE1200HP supports a 3.0-5.5 VDC operating range, enabling minimum power consumption to maximize uptime and productivity in portable applications. Available in both undecoded and decoded (Symbol SE1223HP) versions, the 650 nm "brighter" laser diode provides a scan line that is easy to see outdoors. This highly visible scan line ensures that in "Aim" mode scanning is easy and

intuitive — even in full sunlight, while the retro-collective optical design helps to maintain its reliable scanning performance. Built-in Adaptive Logic Technology, previously available only in our premier handheld scanners, is now embedded in the Symbol SE1200HP. Using multiple digitizer thresholds, Adaptive Logic extends the working range on both high-density and poor-quality bar codes. For premium scanning performance in portable or fixed-mount devices, the Symbol SE1200HP Scan Engine has a typical working range from contact to beyond 60 in./152 cm. Its wide temperature range, immunity to ambient light and durable design ensure the Symbol SE1200HP delivers premium scanning performance in the most demanding environments.

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, since our OEM devices are designed to ease integration, you can bring your systems to market quickly and cost-effectively.

For more information about the Symbol SE1200HP, contact us at +1.800.722.6234 or +1.631.738.2400 or visit us on the Web at www.symbol.com/se12xxhp

SPECIFICATION SHEET

SYMBOL SE1200HP/SE1223HP
OEM scan engines

“Aim” mode

Helps to make scanning easy and intuitive

Retro-collective optical system

Provides high ambient light immunity

650 nm bright laser diode

Easy-to-see scan line is suitable for outdoor applications

Symbol SE1200HP/SE1223HP Specifications

SYMBOL SE1200HP SCAN ENGINE SPECIFICATIONS (UNDECODED)

Physical Characteristics

Dimensions (max.): 0.76 in. H x 1.51 in. W x 1.00 in. D
19.30 mm H x 38.35 mm W x 25.40 mm D

Weight (max.): 1.19 oz./34 g

Performance Characteristics

Light Source: Visible Laser Diode 650 nm

Scan Rate: 35 (± 5) scans/sec (bidirectional)

Scan Angle: 42° ± 2°

Scan Patterns: Linear

Minimum Print Contrast: Minimum 20% absolute dark/light reflectance measured at 650 nm

Interfaces: 8 Pin ZIF connector, Industry standard output

User Environment

Ambient Light Artificial: 450 ft. candles (4,844 Lux)
Sunlight: 10,000 ft. candles (107,640 Lux)

Operating Temp.: -22° to 140° F (-30° to 60° C)

Storage Temp.: -40° to 140° F (-40° to 60° C)

Humidity: 5% to 95% non-condensing

Power: Input Voltage: 3.0-5.5 VDC ± 10%
Input Current: 65 mA typical
Standby Current: 50 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

SYMBOL SE1223HP SCAN ENGINE SPECIFICATIONS (DECODED)

Physical Characteristics

Dimensions (max.): 0.76 in. H x 1.51 in. W x 1.38 in. D
19.30 mm H x 38.35 mm W x 35.05 mm D

Weight (max.): 1.33 oz./37.7 g

Performance Characteristics

Light Source: Visible Laser Diode 650 nm

Scan Rate: 35 (± 5) scans/sec (bi-directional)

Scan Angle: 42° ± 2°

Scan Patterns: Linear

Minimum Print Contrast: Minimum 20% absolute dark/light reflectance measured at 650 nm

Symbologies: UPC/EAN, Code 128, Code 39, Code 93, I 2 of 5, Discrete 2 of 5, Codabar, MSI UCC/EAN 128, TriOptic Code 39

Programmable Parameters: Laser On Time, Aim Duration, Power Mode, Trigger Mode, Bi-directional Redundancy, Symbology Types/Lengths, Data Formatting, Serial Parameters, Beeper Tone

Interfaces: 12 position ZIF connector. Symbol Standard SSI Interface with logic level serial data communications plus trigger, beeper and decode LED signals

User Environment

Ambient Light: Artificial: 450 ft. candles (4,844 Lux)
Sunlight: 10,000 ft. candles (107,640 Lux)

Operating Temp.: -22° to 140° F (-30° to 60° C)

Storage Temp.: -40° to 140° F (-40° to 60° C)

Humidity: 5% to 95% non-condensing

Power: Input Voltage: 5.0 VDC ± 10%
Input Current: 110 mA typical
Standby Current: 130 µA max.

Shock: 2,000 G

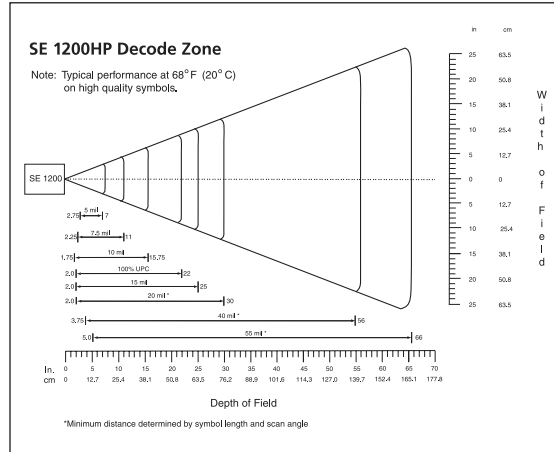
Regulatory

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

Symbol SE1200HP Decode Zone



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