Miniature scan engine sets new standard for performance, features and reliability
The Symbol SE950/SE955 miniature scan engine sets a new benchmark, offering best-in-class quality, reliability, durability and scanning performance. Scanning across the wide working range is easy, intuitive and rapid, regardless of environment. The durable engine design enables you to deliver products that perform reliably day in and day out, increasing productivity and reducing total cost of ownership. Regardless of whether you are designing handheld computers, medical instruments, diagnostic equipment, lottery terminals, robotics and more, these extremely small scan engines deliver next-generation performance with an ease of integration that enables rapid cost-effective product development — a true competitive advantage.

Increased productivity
The highly advanced retro-collective optical design provides a superior working range, regardless of lighting or bar code symbology. Scanning speed is optimized to provide aggressive read times, and the programmable scan line is easily adjusted, providing the flexibility to use a single scan engine for a wide variety of uses. The result is the rapid and accurate scanning needed to improve worker productivity.

Durability for all day every day use
The Symbol SE950/SE955 offers superior reliability you can count on, regardless of whether you are incorporating the Symbol SE950/SE955 into mobile computers or laboratory analyzers. The patented Liquid Polymer Scan Technology is frictionless and will not wear out. Designed for durability, the elimination of fragile silicon mirrors combined with the die cast chassis enables the Symbol SE950/SE955 to handle drop shocks up to 2000Gs. You enjoy maximum uptime — and a lower total cost of ownership.

Lower total cost of ownership (TCO)
The Symbol SE950/SE955 enables the development of products that offer superior manageability. Built-in system performance monitoring enables remote access to scan engine statistics. Management of your products is easier, less time consuming and less expensive — a competitive advantage for you and a lower TCO for your customers.

Rapid and flexible integration
The miniature Symbol SE950/SE955 is designed to easily integrate into the products you design today — and tomorrow. The industry standard form factor allows you to easily upgrade your current scan engine without the expense of changing your tooling processes, allowing you to offer the latest technology without the time and cost associated with changing your production line. For more information on the Symbol SE950/SE955, access our global contact directory at www.symbol.com/contact or visit us on the web at www.symbol.com/se950955
Symbol SE950/SE955 Specifications

### SYMBOL SE950 SCAN ENGINE SPECIFICATIONS (UNDECODED)

#### Physical Characteristics

- **Dimensions:** 46H x 85W x 61D (in) / 11.59H x 21.62W x 15.60D (mm)
- **Weight:** 27 oz / 7.5 g
- **Configuration:** undefined
- **Interface:** CIP and FC control on a 10 pin ZIF connector

#### User Environment

- **Light Source:** Artificial: 450 ft. candles (4,844 Lux) / Sunlight: 10,000 ft. candles (107,640 Lux)
- **Operating Temp.:** -4°F to 104°F (-20°C to 60°C)
- **Storage Temp.:** -4° to 158°F (-20°C to 70°C)
- **Humidity:** 5% to 95% non-condensing
- **Power:** Input Voltage: 3.3 ± 10% / Current: 76 mA typical

#### Regulatory

- **Environmental:** RoHS compliant
- **Electrical Safety:** UL 60950, EN/IEC 60950

### SYMBOL SE955 SCAN ENGINE SPECIFICATIONS (DECODED)

#### Physical Characteristics

- **Dimensions:** SE-955-100R (3.3V): 46H x 85W x 61D (in) / 11.59H x 21.62W x 15.60D (mm)
- **Weight:** 28 oz / 8 g
- **Configuration:** decoded
- **Interface:** SSI Control over TTL Serial on a 12 pin ZIF connector

#### User Environment

- **Light Source:** Artificial: 450 ft. candles (4,844 Lux) / Sunlight: 10,000 ft. candles (107,640 Lux)
- **Operating Temp.:** -4°F to 104°F (-20°C to 60°C)
- **Storage Temp.:** -4° to 158°F (-20°C to 70°C)
- **Humidity:** 5% to 95% non-condensing
- **Power:** Input Voltage: SE-955-100R (3.3V): 3.3 ± 10% / Current: SE-955-100R (3.3V): 86mA

#### Regulatory

- **Environmental:** RoHS compliant
- **Electrical Safety:** UL 60950, EN/IEC 60950

### Performance Characteristics

- **Light Source:** Visible Laser Diode 650 nm
- **Scan Rate:** 104 (±) 12 scans/sec (bi-directional)
- **Scan Angle:** 47° ± 3° (typical) / 35° ± 3° (narrow)
- **Scan Patterns:** Linear

#### Minimum Print Contrast

- **Ranges - 1D codes:** Minimal 20% absolute dark/light reflectance measured at 650 nm
- **Ranges - 2D codes:**
  - **4 mil:** Code 39: 2.5:1 - 80% / MRD: 1 - 5.5 (in) / 13.97 (cm)
  - **5 mil:** Code 39: 2.5:1 - 80% / MRD: 1.25 - 8 (in) / 20.32 (cm)
  - **7.5 mil:** Code 39: 2.5:1 - 80% / MRD: 1.5 - 13 (in) / 38.10 (cm)
  - **10 mil:** Code 39: 2.5:1 - 80% / MRD: 1.5 - 18 (in) / 45.72 (cm)
  - **13 mil:** 100% UPC - 90% / MRD: 1.5 - 24 (in) / 60.96 (cm)
  - **15 mil:** Code 39: 2.5:1 - 80% / MRD: 1.5 - 28 (in) / 71.12 (cm)
  - **20 mil:** Code 39: 2.2:1 - 80% / MRD: 1.75 - 33 (in) / 44.50 (cm)
  - **40 mil:** Code 39: 2.2:1 - 80% / MRD: 4 (in) / 101.6 (cm)
  - **55 mil:** Code 39: 2.2:1 - 80% / MRD: 55 (in) / 1,397 (cm)

#### Symbole Supported

- All major 1D bar codes

#### Programmable Parameters

- **Ranges - 1D codes:**
  - **4 mil:** Code 39: 2.5:1 - 80% / MRD: 1 - 5.5 (in) / 13.97 (cm)
  - **5 mil:** Code 39: 2.5:1 - 80% / MRD: 1.25 - 8 (in) / 20.32 (cm)
  - **7.5 mil:** Code 39: 2.5:1 - 80% / MRD: 1.5 - 13 (in) / 38.10 (cm)
  - **10 mil:** Code 39: 2.5:1 - 80% / MRD: 1.5 - 18 (in) / 45.72 (cm)
  - **13 mil:** 100% UPC - 90% / MRD: 1.5 - 24 (in) / 60.96 (cm)
  - **15 mil:** Code 39: 2.5:1 - 80% / MRD: 1.5 - 28 (in) / 71.12 (cm)
  - **20 mil:** Code 39: 2.2:1 - 80% / MRD: 1.75 - 33 (in) / 44.50 (cm)
  - **40 mil:** Code 39: 2.2:1 - 80% / MRD: 4 (in) / 101.6 (cm)
  - **55 mil:** Code 39: 2.2:1 - 80% / MRD: 55 (in) / 1,397 (cm)

(*) = dependent on width of bar code