

DS3478-SF Scanner

Rugged cordless digital scanner

DATA SHEET

Capture bar codes with laser-like precision

Symbol's rugged DS3478-SF cordless digital scanner uses digital imaging technology to accurately capture all types of one-dimensional (1D) and two-dimensional (2D) bar codes while offering the high performance typically found only in laser scanners. With the DS3478-SF, you benefit from a scanning solution designed specifically for fast-paced production environments. The DS3478-SF comes equipped with charge coupled device (CCD) image sensors, which allow them to more accurately capture and process bar codes at a faster pace than other digital scanners. In addition, the scanner's omni-directional scanning functionality lets operators quickly capture bar codes from any angle, eliminating the need to line up bar codes with laser lines. The DS3478-SF has the widest working range of any scanner in its class. Its two-position smart focus technology, unique to Symbol, allows you to read bar codes regardless of the size or density of the code. This means this single device works well for all your scanning needs.

Eliminate the cord, not performance

Your warehouse, manufacturing and even retail employees operate more efficiently when you eliminate the cable between the device and the host. And, you've probably noticed the cable is a common point of failure in handheld devices operating in industrial facilities. Having no cord translates into fewer repairs and less downtime from cable breakdowns.

Minimize equipment downtime

As innovative as it is rugged, the DS3478-SF delivers the ergonomic and operational features for scan-intensive industrial applications under the harshest operating conditions. During industry tumble tests, it continued to provide reliable performance even when subjected to multiple drops of 6.5 feet (2 meters) to concrete. An IP65-rated seal makes it impervious to dust and water, and its exit window is scratch-resistant and recessed for the highest level of durability. As a result, you avoid unnecessary equipment downtime or expensive equipment replacement costs.

An investment for now and the future

The DS3478-SF doesn't just provide you with a scanning solution that meets current and future needs — it'll help protect your past investments as well. The DS3478-SF offers the technology you need to scan newer bar code symbologies such as 2D bar codes as well as 1D bar codes. In addition, the DS3478-SF includes a multi-interface allowing it to work with a variety of hosts. With the DS3478, you'll choose the scanner that is right for you — without having to worry about making a large investment in your overall architecture.



FEATURES

BENEFITS

Ability to read all standard 1D and 2D bar codes

Increases customer productivity by leveraging the high performance of 2D bar codes: one device reads all industry standard bar codes

Cordless scanning

Enables real-time bar code data collection unrestricted by a cable, reducing repairs made necessary by cable failure

Omni-directional scanning

Increases productivity by eliminating the need to orient the scanner with the bar code

Rugged design withstands multiple 6.5-ft. (2-m) drops to concrete

Ensures maximum reliability with less downtime resulting from accidental drops

IP65-rated seal (electronic enclosure)

Protects against water and dust to ensure reliable performance in harsh industrial conditions, reducing unplanned downtime because of equipment failure

Bright LED and beeper with adjustable volume

Ensure positive user feedback in noisy environments with multiple modes of confirmation, so employees don't waste time trying to determine if a scan has been completed

Two-position smart focus

Unique to the DS3478-SF, this feature allows users to optimize the scanner for their application by providing them with a choice of two focus positions

Advanced data formatting

Eliminates costly modifications to the host software

Universal cable set

Allows for easy replacement and upgrades

Multiple on-board interfaces

Ensures flexible connectivity with different hosts enabling you to maximize use of your existing technology

Provides versatility for your industrial applications

Working around noisy machinery and in poorly lit areas, your operators aren't always able to see or hear scanner feedback to quickly determine if scans have completed. Bright LEDs and an adjustable-volume beeper on the DS3478-SF ensure that decode feedback is clearly visible and audible to users, saving valuable worker time.

End maintenance worries with a full suite of services and support

Even the most rugged scanners need a support plan to cover maintenance. That's why Symbol covers every aspect of your mobility solution — from network design to ongoing operations — providing unsurpassed breadth and depth of coverage to ensure all of your services and support needs are met.

Symbol Services offer:

- Professional planning, assessment and implementation services, forming the foundation of a successful solution
- A global team with unrivaled industry and product expertise, focused on Symbol product support
- Responsive customer services, ensuring your solution operates seamlessly and efficiently

For more information on the cordless rugged DS3478-SF handheld scanner and the full line of accessories, contact us at +1.800.722.6234 or +1.631.738.2400, or visit us at www.symbol.com/ds3478sf

¹ Roll (Tilt): Controlled by rotating the wrist clockwise or counterclockwise

² Pitch: Controlled by dropping or raising the wrist

³ Skew (Yaw): Controlled by rotating the wrist from left to right or vice versa

DS3478-SF specification highlights

Physical characteristics

Dimensions	7.34 in. L x 4.82 in. W x 2.93 in. D (18.65 cm H x 12.25 cm W x 7.43 cm D)
Weight (without cable)	14.6 oz. (414 gm)
Battery	2200 mAh Lithium Ion Battery
Battery charge time	Fully charged (100%) in 3 hours
Color	Twilight Black and Yellow

Performance characteristics

Light source	650 nm visible laser diode
Resolution	640 x 480
Minimum element width	5 mil (0.127 mm)
Nominal working distance	See decode zone
Print contrast	25% minimum reflective difference
Roll (Tilt) ¹	+/- 50 degrees from normal
Pitch ²	+/- 60 degrees from normal
Skew (Yaw) ³	+/- 180 degrees from normal
1D Codes	UPC.EAN, UPC.EAN with Supplementals, UCC.EAN 128, JAN 8 & 13, Code 39, Code 39 Full ASCII, Code 39 Trioptic, Code 128, Code 128 Full ASCII, Codabar (NW7), Interleaved 2 of 5, Discrete 2 of 5, Code 93, MSI, Code 11, Code 32, Bookland EAN, IATA, UCC/EAN RSS and RSS variants
2D codes	PDF417, microPDF417, Maxicode, Data Matrix (ECC 2000), Composite Codes, QR Code
Postal codes	U.S. Postnet, U.S. Planet, U.K. Postal, Japan Postal, Australian Postal, Dutch Postal
Interfaces supported	RS232, Keyboard Wedge, Wand Emulation, Scanner Emulation, IBM 468X/469X, USB and Synapse

User environment

Operating temperature	32° to 122° F (-0° to 50° C)
Storage temperature	-40° to 140° F (-40° to 60° C)
Humidity	5% to 95% relative humidity, noncondensing
Sealing	Sealed to IP65 specifications
Drop specifications	Unit functions normally after repeated 6.5-ft. (2-m) drops to concrete
Ambient light immunity	Immune to direct exposure of normal office and factory lighting conditions, as well as direct exposure to sunlight: Outdoor: 10,000 foot-candles/107,600 Lux
Electrostatic discharge	Conforms to 15 kV air discharge and 8 kV of contact discharge

Cradles	STB 3408 and FLB 3408	STB 3478 and FLB 3478
Power requirements	4.75 – 14 VDC	4.75 – 14 VDC
Typical current draw		
Not charging	10 mA	105 mA @5V 45 mA @9V
Fast rate charge	915 mA @5V 660 mA @9V	915 mA @5V 660 mA @9V
Slow rate charge	480 mA @5V 345 mA @9V	480 mA @5V 345 mA @9V
Radio link	N/A	Bluetooth class 1 (2.4 GHz), Class 2

Radio specification

Radio range	100 meters direct line of sight.
Frequency	2.4 GHz

Regulatory

Input transient protection	IEC 1000-4-(2,3,4,5,6,11)
EMI/RFI	FCC Part 15 Class B, ICES-003 Class B, European Union EMC Directive, Japan VCCI/MITI/Dentori
Laser safety	CDRH Class II, IEC Class 2

Warranty

The DS3478-SF is warranted against defects in workmanship and materials for a period of 3 years (36 months) from date of shipment, provided that the product remains unmodified and is operated under normal and proper conditions. See full warranty for details.

About Symbol Technologies

Symbol Technologies, Inc., The Enterprise Mobility Company™, is a recognized worldwide leader in enterprise mobility, delivering products and solutions that capture, move and manage information in real time to and from the point of business activity. Symbol enterprise mobility solutions integrate advanced data capture products, radio frequency identification technology, mobile computing platforms, wireless infrastructure, mobility software and world-class services programs under the Symbol Enterprise Mobility Services brand. Symbol enterprise mobility products and solutions are proven to increase workforce productivity, reduce operating costs, drive operational efficiencies and realize competitive advantages for the world's leading companies. More information is available at www.symbol.com



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