

DS2200 SERIES SPECIFICATIONS

Physical Characteristics

Dimensions
Corded DS2208: 6.5 in. H x 2.6 in. W x 3.9 in. D 16.5 cm H x 6.6 cm W x 9.9 cm D Cordless DS2278: 6.9 in. H x 2.6 in. W x 3.5 in. D 17.5 cm H x 6.6 cm W x 9.0 cm D Presentation Cradle: 2.8 in. H x 3.7 in. W x 4.8 in. D 7.2 cm H x 9.4 cm W x 12.2 cm D
Weight
Corded DS2208: 5.7 oz. / 161.6 g Cordless DS2278: 7.5 oz. / 214 g Presentation Cradle: 5.2 oz. / 151 g
Input Voltage Range
DS2208/DS2278 and Cradle: 4.5 to 5.5 VDC Host Powered; 4.5 to 5.5 VDC External Power Supply
Current
Corded DS2208 Operating Current at Nominal Voltage (5.0V): 250 mA (typical). (Note: Auto-Aim and Illumination on Acquiring Image) Corded DS2208 Standby Current (idle) at Nominal Voltage (5.0V): 150 mA (typical). (Note: Auto-Aim On) Presentation Cradle and Micro USB Cable: 500 mA (typical) Standard USB; 1100 mA (typical) BC 1.2 USB
Color
Nova White, Twilight Black
Supported Host Interfaces
USB, RS232, Keyboard Wedge, TGCS (IBM) 46XX over RS485
Keyboard Support
Supports more than 90 international keyboards
User Indicators
Direct Decode Indicator; good decode LEDs; Rear view LEDs; beeper (adjustable tone and volume)

Performance Characteristics

Motion Tolerance (Handheld)
Up to 5 in./13 cm. per second for 13 mil UPC
Swipe Speed (Hands-Free)
Up to 30.0 in./76.2 cm. per second for 13 mil UPC
Light Source
Aiming Pattern: Linear 624nm Amber LED

Illumination
(2) 645nm Super-Red LEDs
Imager Field of View
32.8° H x 24.8° V Nominal
Image Sensor
640 x 480 pixels
Minimum Print Contrast
25% minimum reflective difference
Skew/Pitch/Roll Tolerance
+/- 65°; +/- 65°; 0-360°
Minimum Element Resolution
Code 39 - 4.0 mil; Code 128 - 4.0 mil; Data Matrix - 6.0 mil; QR Code - 6.7 mil

User Environment

Operating Temperature
DS2208/DS2278 Imagers: 32.0° to 122.0° F/0.0° to 50.0° C Presentation Cradle: 32.0° to 104.0° F/0.0° to 40.0° C
Storage Temperature
-40.0° to 158.0° F/-40.0° to 70.0° C
Humidity
5% to 95% RH, non-condensing
Drop Specification
Designed to withstand multiple drops at 5.0 ft./1.5 m to concrete
Tumble Specification
Designed to withstand 250 tumbles in 1.5 ft./1.5 m tumbler ¹
Environmental Sealing
IP52
Electrostatic Discharge (ESD)
DS2208/DS2278 and CR2278 Cradle: ESD per EN61000-4-2, +/-15 KV Air, +/-8 KV Direct, +/-8 KV Indirect
Ambient Light Immunity
0 to 10,000 Foot Candles/0 to 107,600 Lux

Radio Specifications

Bluetooth Radio
Standard Bluetooth Version 4.0 with BLE: Direct line of sight in open air: Class 2: Minimum 30 ft. (10.0 m) and up to 300 ft. (100.0 m) when paired with CR2278 cradle. Environmental factors may impact results. Serial Port and HID Profiles; output power adjustable down from 2.0 dBm in 8 Steps

Battery

Battery Capacity/Battery Type
2,400 mAh Li-Ion Battery
Scans Per Battery Charge²
110,000 scans at 60 Scans per Minute or 50,000 scans at 10 Scans per Minute
Operating Time Per Full Charge²
84.0 Hours
Charge Time (from Empty)
14 Hour Shift Hours / Full Charge Hours
Standard USB
14 Hour Shift Hours: 4 Full Charge Hours: 17
BC1.2 USB
14 Hour Shift Hours: 1 Full Charge Hours: 5
External 5V Source
14 Hour Shift Hours: 1 Full Charge Hours: 5
Micro USB
14 Hour Shift Hours: 1 Full Charge Hours: 7
BC1.2 Micro USB
14 Hour Shift Hours: 1 Full Charge Hours: 4