



Datalogic DSM04XX – Small scan module with many applications

- ✓ Reading of 1D and 2D barcodes down to a resolution of only 2 mils
- ✓ Universally applicable - available in numerous variants
- ✓ Innovative Green Spot confirms successful barcode scans
- ✓ Photo functionality for additional applications such as document scanning
- ✓ Robust construction and IP54 housing allow installation in devices or free mounting

Features

Readable codes: 1D, 2D, Post, Stack

Sensor: WVGA: 752 x 480 px, MP: 1280 x 960 px

Reading distance: 3.5 cm - 40 cm

Reading range: 40 - 52° h x 26 - 40° v

Illumination LEDs: White

Feedback: LEDs, Green Spot, Beeper

Connectivity: USB, RS-232

Power connection: 5 V DC

Protection: IP54

Operating temperature: -20 - 45°C

Dimensions: 47 x 27 x 38 mm

Weight: 96 - 131 g

Accessories included

Bracket

PART NUMBERS

DSM0421	DSM0400, 2D, WVGA, USB, 50 cm Cable
DSM0422-DL	DSM0400, 2D, MP-DL, USB, 50 cm Cable
DSM0452-DL	DSM0400, 2D, MP-DL, RS-232, 2 m Cable
DSM0492-DL	DSM0400, 2D, MP-DL, RS-232 and USB, RJ-45 Connector
DSM0422-WA	DSM0400, 2D, MP-WA, USB, 50 cm Cable
DSM0452-WA	DSM0400, 2D, MP-WA, RS-232, 2 m Cable
DSM0492-WA	DSM0400, 2D, MP-WA, RS-232, USB, RJ-45 Connector

DECODING CAPABILITY

1D / Linear Codes	All standard 1D codes including: UPC/EAN/JAN, P2 / P5 add-ons; Code 39; Italian Pharmacode 39; Code 128; C128 ISBT; I 2 of 5; Standard 2 of 5; Interleaved 2 of 5; Industrial 2 of 5; Datalogic 2of5; IATA; Code 11; Codabar; ABC Codabar; EAN 128; Code 93; MSI/Plessey; RSS-14; BC412; Databar Limited; Databar Omnidirectional; Databar Expanded; IATA; Trioptic; Matrix 2/5; Telepen. Composite codes CC-A, CC-B and CC-C
2D Codes	Aztec Code; China Han Xin Code; Data Matrix; MaxiCode; Micro QR Code; QR Code
Postal Codes	Australian Post; British Post; China Post; IMB; Japanese Post; KIX Post; Korea Post; Planet Code; Postnet; Royal Mail Code (RM4SCC)
Stacked Codes	EAN/JAN Composites; GS1 DataBar Composites; GS1 DataBar Expanded Stacked; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional; MacroPDF; MicroPDF417; PDF417; UPC A/E Composites

ELECTRICAL

Input Voltage	5 VDC \pm 5%
Current: DSM0421 USB Connected	Operating (Typical): \approx 214 mA** Standby/Idle (Typical): \approx 57 mA* Low Power: \approx 3.9 mA
Current: DSM0422 / DSM0492 USB Connected	Operating (Typical): \approx 214 mA** Standby/Idle (Typical): \approx 55 mA* Low Power: \approx 5 mA
Current: DSM0452 / DSM0492 RS-232 Connected	Operating (Typical): \approx 246 mA** Standby/Idle (Typical): \approx 50 mA* Low Power: \approx 9 mA

**If "power" and "trigger" status LED are enabled add 30 mA
* If "power" status LED is enabled add 15 mA

ENVIRONMENTAL

Ambient Light	0 - 100,000 lux
Humidity (Non-condensing)	5 - 95%
Drop Resistance	Withstands repeated drops from 3 ft onto a concrete surface.
Particulate and Water Sealing	IP54
Temperature	Operating: -20 to 50°C / -4 to 122 °F Storage/Transport: -40 to 70 °C / -40 to 158 °F

INTERFACES

Interfaces	USB: HID-KBD, COM, OEM& Composite (KBD & COM) RS-232
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PHYSICAL CHARACTERISTICS

Colors Available	Black
Dimensions	4.7 x 2.7 x 3.8 cm / 1.85 x 1.06 x 1.50 in
Weight (with cable)	USB version - Approximately 131 g / 4.62 oz RS-232 version - Approximately 155 g / 5.47 oz RJ-45 version - Approximately 96 g / 3.39 oz

READING PERFORMANCE

Imager Sensor	WVGA: 752 x 480 pixels MP: 1280 x 960 pixels
Light Source	Aiming: 650 nm VLD Illumination: White LEDs
Field of View	DSM0421: 40°H x 26°V DSM04X2-DL: 42°H x 32°V DSM04X2-WA: 52°H x 40°V
Reading Angle	Pitch: \pm 60°; Roll (Tilt): \pm 180°; Skew (Yaw): \pm 60°
Reading Indicators	Beeper (Adjustable volume); Good Read Feedback; Datalogic 'Green Spot' Technology; Good read top LED.
Resolution (Maximum)	1D Linear: 2.5 mils (DSM04X2) - 3.0 mil (DSM0421) Data Matrix: 6 mils (DSM04X2) - 7.5 mils (DSM0421) PDF417: 3 mils (DSM04X2) - 6.6 mils (DSM0421)
Print Contrast (Minimum)	25%
Image Capture	Greyscale: 256; Graphic Formats: BMP, JPEG

READING RANGES

Typical Depth of Field	Minimum distance determined by symbol length and scan angle. Printing resolution, contrast, and ambient light dependent.
1D/2D Codes: DSM0421	3 mils Code 39: 8.0 to 17.5 cm / 3.1 to 6.9 in 5 mils Code 39: 5.5 to 26.0 cm / 2.1 to 10.2 in 13 mils EAN-13: 4.5 to 42.0 cm / 1.8 to 16.5 in 20 mils Code 39: up to 59.0 cm / up to 23.2 in 15 mils Data Matrix: 3.5 to 26.5 cm / 1.4 to 10.4 in 10 mils PDF417: up to 20.0 cm / up to 7.9 in
1D/2D Codes: DSM04X2-DL	3 mils Code 39: 6.5 to 20.0 cm / 2.5 to 7.8 in 5 mils Code 39: 3.5 to 29.0 cm / 1.3 to 11.4 in 10 mils Data Matrix: 7.5 to 26.0 cm / 2.9 to 10.2 in 13 mils EAN-13: 4.5 to 42.0 cm / 1.7 to 16.5 in 15 mils Data Matrix: 5.5 to 32.0 cm / 2.1 to 12.5 in 20 mils Code 39: up to 60.0 cm / up to 23.6 in
1D/2D Codes: DSM04X2-WA	3 mils Code 39: 5.0 to 18.0 cm / 2.0 to 7.1 in 5 mils Code 39: 3.0 to 24.0 cm / 1.2 to 9.4 in 10 mils Data Matrix: 4.0 to 20.0 cm / 1.6 to 7.9 in 13 mils EAN-13: 3.5 to 37.0 cm / 1.4 to 14.6 in 15 mils Data Matrix: 3.0 to 25.0 cm / 1.2 to 9.8 in 20 mils Code 39: up to 60.0 cm / up to 23.6 in

SAFETY & REGULATORY

Agency Approvals	The product meets necessary safety and regulatory approvals for its intended use. The Quick Reference Guide for this product can be referred to for a complete list of certifications.
Environmental Compliance	Complies to China RoHS; Complies to EU RoHS
Laser Classification	Caution Laser Radiation - Do not stare into beam IEC 60825 Class 2

SOFTWARE INTEGRATION

Operating System Support	Windows; Linux, Android™
Tools	DESP Demonstration & Configuration Utility; Datalogic Aladdin™

WARRANTY

Warranty	3-Year Factory Warranty
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