

Our Vision. Your Precision.



Powerful OEM scan module

With first-class
data collection

Large working area

Reading ranges
from 5 cm to 10 m

Superior readability

For low-contrast
barcodes

High scanning sensitivity

And decoding
skills

Easy integration

In hand scanners,
robotics and
automation
solutions, etc.

- » Excellent scanning sensitivity and decoding capabilities thanks to dual-core 1.2 GHz processor
- » Exceptional motion tolerance with 120 fps
- » Withstands extreme temperatures
- » Red and white illumination and green laser aimers
- » Low power consumption
- » Easy integration into various systems via HID, VCOM, RS232 (12-pin ZIF)

Ideal for OEMs, system integrators, and manufacturers of:

- » Industrial handheld scanners
- » Handheld PDAs and mobile computers
- » Manufacturing and inspection systems
- » Robotics and automation solutions

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Mechanical properties

Dimensions	38 x 27,2 x 19,8 mm
Weight	32,6 g
Interface	USB, TTL RS232, USB-COM
Connection	12-pin ZIF FPC

Electrical properties

Input voltage	3,3 VDC $\pm$ 5%
Current consumption	300 mA (typical, $\pm$ 5%), 420 mA (max. $\pm$ 5%), <160 mA (standby)

Environmental characteristics

Operating temperature	-20°C to +55°C
Storage temperature	-40°C to +70°C
Humidity	Up to 95% non-condensing
Vibration	Operational Vibration: 10–150 Hz, 0.5 G, 3 axes, 1 min/oct, 1 cycle/axis Endurance Vibration: 10–150 Hz, 2 G, 3 axes, 1 min/oct, 20 cycles/axis
Ambient light	0 to 100,000 lux
Warranty	24 months

Symbologies

Linear	Codabar, Code 11, Code 128, Code 2 of 5, Code 32, Code 39, Code 39 (Full ASCII), Code 93 and 93i, Composite Code - A/B/C, EAN-13, EAN8, IATA Code 2 of 5, Interleaved 2 of 5, ISBN/ISSN, Matrix 2 of 5, MSI/Plessey, UCC/EAN128, UK/Plessey, GS1 Databar 14, GS Databar Expanded, GS Databar Limited, UPC-A, UPC E,
2D Stacked	PDF417, Micro PDF417
2D Matrix	Aztec Code, Data Matrix, MaxiCode, QR Code, Micro QR, Chinese Sensible (HanXin)

Safety

Aiming (Laser)	EN/IEC 60825-1:2007 (Class 2)
Lighting (red/white)	IEC 62471 (Photobiological Safety)

Performance

Sensor technology	Global Shutter
Resolution	1280 x 1024 (2 Sets)
Scan rate	120 fps
Lighting	White LED (far) Red LED (near)
Aimer	Green laser dot
Field of view	Far: 28.0° (V) x 22.0°(H) Near: 11.5° (V) x 9.0°(H)
Smallest resolution	5mil 1D
Indicators	Buzzer, LED
Processor	Dual-core 1.2 GHz processor
Contrast	$\geq$ 15%
Trigger Mode	Manual, trigger via serial

Reading areas	Close range (cm)	Long range (cm)
5 mil Code 39	5	32
10 mil Data Matrix	5	33
10 mil Code 128	4,5	145
13 mil UPC/EAN	5,5	190
20 mil Code 39	12	265
20 mil QR	5,5	140
40 mil Code 128	38	400
55 mil Code 39	30	415
100 mil Code 39	40	630
100 mil Data Matrix	20	410
200 mil Data Matrix	100	1000

Order numbers

Item number	Description
TM2038-XXGDNL0	Rockscan TM2038 Scan Engine, Green Laser, Dot, Long Range

Climate-neutral product

This product is climate neutral. The production and logistics of the Rockscan TM2038 generate 10 kg of CO₂e emissions. These unavoidable emissions are fully and generously offset by Gold Standard projects. For more information about our environmental efforts, visit <https://www.werocktools.com/company/environmental-protection/>.

