GENERALSCAN

GMA3527-D Smart Scan Module

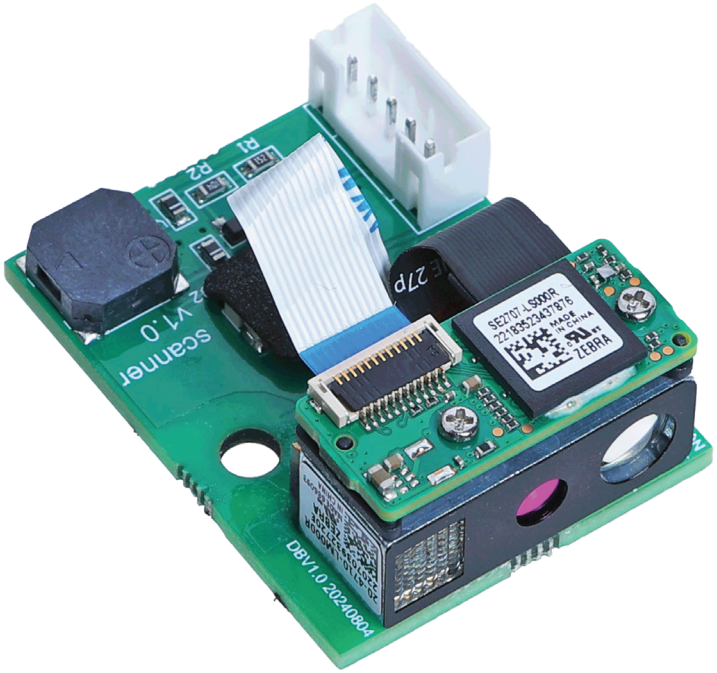
The GMA3527-D is engineered for compact integration without compromising performance. With its ultra-compact footprint, it seamlessly fits into space-constrained devices such as handheld terminals, kiosks, and portable scanners. Despite its small size, it delivers high-speed and accurate barcode reading. The red LED aiming system provides a clear and consistent targeting guide, allowing users to easily align barcodes for quick recognition. This module is perfect for applications where space, design aesthetics, and functionality need to coexist harmoniously.

FEATURES

• Small Footprint
Unlike other space-constrained modules, you don't have to sacrifice performance for size: GMA3527-D delivers unrivaled scanning performance.

• Red LED Aiming
The red LED typically uses less power, which improves energy efficiency. And also it is widely used and well-tested in the industry.

• White Illumination
The white illumination offers more natural color rendering, which helps in reading colored barcodes or labels.



PERFORMANCE CHARACTERISTICS

Sensor		2D CMOS Image
Optical Resolution		600*480 pixels
Illumination		Red LED
Aiming		Red LED
Field of View		Horizontal 42° wide, Vertical 28°
Screw, Pitch, Roll		Skew tolerance: ±60° from normal Pitch tolerance: ±60° from normal Roll tolerance: 360° from normal
Supported Symbologies	1D:	Code39, Code128, Codabar, Code11, UPC/EAN, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Matrix 2 of 5, Korean 3 of 5, GS1 Databar, Code93, MSI, Composite
	2D:	PDF417, Postal CodesMicro PDF, Micro PDF417, Code128 Emulation, Aztec, Data Matrix, GS1 Data Matrix, QR Code, GS1 QR, Maxicode, Micro QR, Han Xin, Grid Matrix

PHYSICAL PARAMETER

Dimension	35.3 x 26.8 x 13.5mm
Weight	10.1g
Operation Voltage	DC 3.3V
Operation Current	135mA
Interfaces	Serial Port

USER ENVIRONMENT

Ambient Light		Max 107,639lux (direct sunlight)
Operating Temperature		-20°C~50°C
Storage Temperature		-40°C~70°C
Humidity	Operating	95% RH, non-condensing at 50°C
	Storage	85% RH, non-condensing at 70°C
Electrostatic Discharge (ESD)		±8kv DC discharge, ±15kv air discharge
Certificates		CE, FCC, KC, TELEC, RoHS, EAC ANATEL, NOM

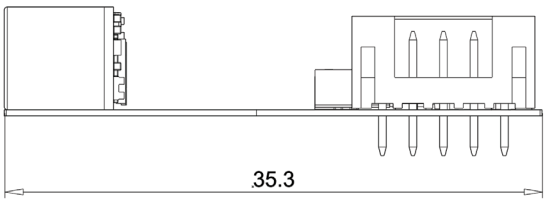
PRODUCT SPEC SHEET

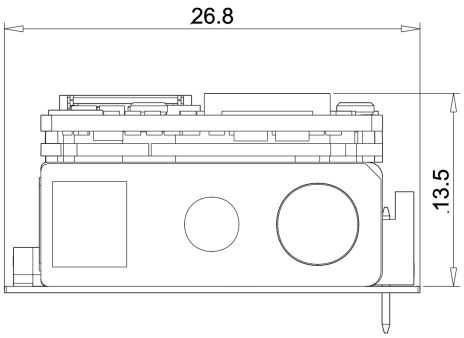
Smart Scan Module GMA3527-D

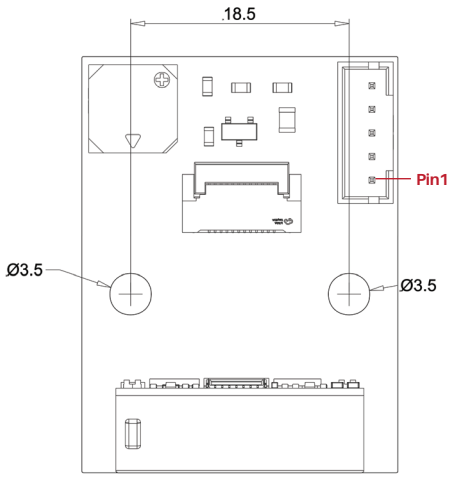
DECODE RANGES

5mil Code128	63.0 -127.0 MM
5mil Code39	51.0 -162.0 MM
6.6mil PDF417	63.0 -160.0 MM
10mil PDF417	45.0 -228.0 MM
20mil Code39	50.0 -495.0 MM
100% UPC	50.0 -317.0 MM
20mil DataMatrix	38.0 -343.0 MM
20mil QR	38.0 -279.0 MM

DIMENSIONS







PIN	Definition	I/O	Description
1	GND	-	Power Ground
2	+3.3V	-	Power
3	TXD	O	Transmit
4	RXD	I	Receive
5	TR	I	Trigger key input

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