GENERALSCAN

GMA3527-B Smart Scan Module

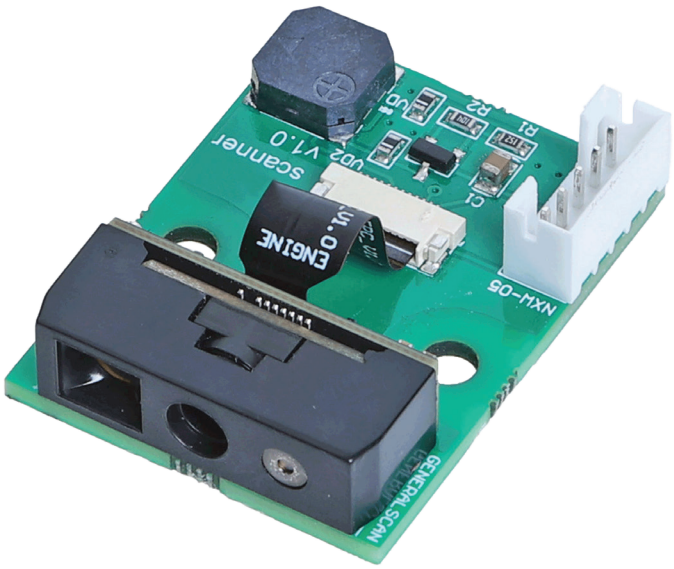
The GMA3527-B sets a new standard in ergonomic scanning with its innovative lighting system. Combining warm white illumination with a red cross laser, it significantly improves the readability of low-contrast, smudged, or damaged barcodes. The soft lighting not only enhances scan accuracy but also reduces eye strain for users engaged in high-volume or repetitive scanning tasks. This makes it an excellent choice for environments such as retail checkouts, warehouses, and production lines, where consistent performance and user comfort are top priorities.

FEATURES

• Red Cross Laser Aiming
The red cross laser provides a clear visual guide, reducing misalignment errors and minimizes the need for multiple scan attempts.

• Warm White Illumination
Warm white illumination reduces glare and reflection, making barcodes easier to read in bright or highly reflective environments.

• Ex-ordinary Working Hours
With a 600mAh battery, the GMA3527-B can work for up to 18.5 hours on a single charge, fully meeting the needs of a full shift.



PERFORMANCE CHARACTERISTICS

Imager Sensor	CMOS
Optical Resolution	640*480 pixels
Illumination	White LED
Aiming	Red Cross Laser
Readability	≥3mil
Field of View	Horizontal 37.6°, Virtual 28.7°
Screw, Pitch, Roll	Skew tolerance: ±55° from normal Pitch tolerance: ±55° from normal Roll tolerance: 360° from normal
Supported Symbologies	1D: Code128, EAN-8, EAN-13, UPCE0, UPCE1, UPC-A, ISSN, ISBN, Code39, Code11, Code32, Matrix 2 of 5, IATA25, Codabar, Interleaved 2 of 5, MSI Plessey, Plessey, Code93, Industrial 2 of 5, GS1 Databar, Febraban, GS1 Databar Limited, GS1 Databar Expanded, Composite 2D: Aztec, QR Code, Micro QR Code, Datamatrix, PDF417, Micro PDF417, Maxicode, DotCode, Hanxin Code, Composite

PHYSICAL PARAMETER

Dimension	35.3 x 26.8 x 12.1mm
Weight	6.0g
Operation Voltage	DC 3.3V
Operation Current	135mA
Standby Current	10mA(USB), 22mA(UART)
Interfaces	Serial Port

USER ENVIRONMENT

Ambient Light	0 - 100,000 Lux.
Operating Temperature	-20°C~50°C
Storage Temperature	-40°C~70°C
Humidity	5%~95% non-condensing

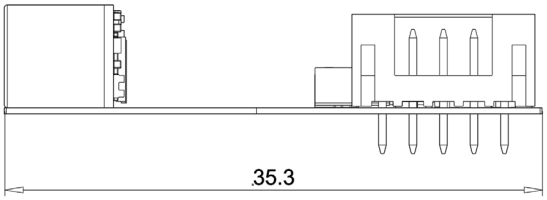
PRODUCT SPEC SHEET

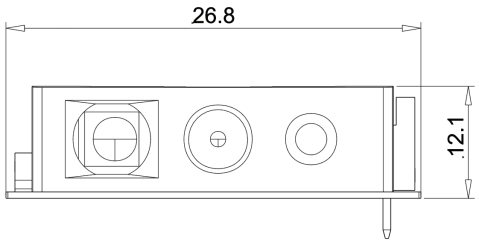
Smart Scan Module GMA3527-B

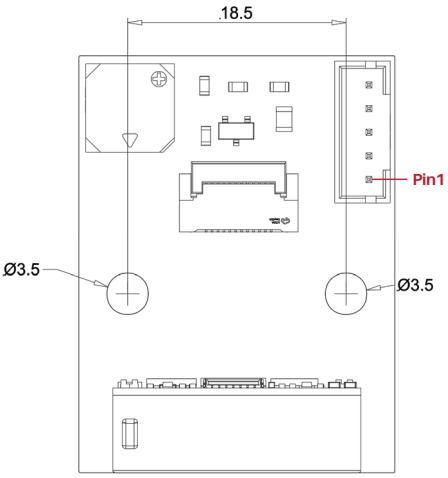
DECODE RANGE

5mil Code39	55 - 120MM
6.67mil PDF417	55 - 145MM
10mil Data Matrix	45 - 150MM
13mil EAN-13	55 - 350MM
13mil Code128	55 - 350MM
15mil QR Code	25 - 230MM

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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