GENERALSCAN

GMA6165-Y Smart Scan Module

GMA6165-Y is designed for versatile integration across various industries such as retail, healthcare, offices, and warehousing. It supports a wide range of applications including self-service payments, access control, barcode payments, and NFC-based identification. With support for up to 25 types of NFC cards, it offers fast and stable long-distance sensing, enhancing user interaction efficiency. The eye-friendly soft LED illumination design provides a comfortable user experience, even during extended use. Whether for O2O QR code redemption or identity verification, this scanner module delivers a reliable and intelligent scanning solution.

FEATURES

• Embedded Installation
GMA6165-Y supports embedded installation, enhancing stability and reliability by minimizing external interference. It also prevents dust and impurities from entering, reducing maintenance frequency and cost.

• A Variety of Communication Interfaces Available
GMA6165-Y supports Wiegand, USB-HID, virtual serial port, and optional RS232, ensuring compatibility with various control boards and system platforms for use in industrial control, embedded systems, and self-service terminals.

• Paper and Screen Code Reading Available
It quickly reads both paper and on-screen QR codes. It is optimized for screen QR codes and can read high data-volume QR code information under challenging conditions like low brightness, partial obstruction, or screen film.

PERFORMANCE CHARACTERISTICS

Optical Resolution	640*480 pixels
Illumination	Warm White LED
Readability	≥5mil
Field of View	Horizontal 74°, Virtual 65°
Screw, Pitch, Roll	Skew tolerance: ±70° from normal
	Pitch tolerance: ±70° from normal
	Roll tolerance: 360° from normal
Supported Symbologies	1D: CodeEANUPC, ISSN, Code Standard 2 of 5, Code128, GS1-128, GS1 DataBar, Code39, Codabar, Code11, Code32, Code93, EAN-8, EAN-13, ISSN, ISBN, UPC-A, UPC-E, Hong Kong 2 of 5, MSI Plessey, Industrial 2 of 5, Interleaved 2 of 5, Straight 2 of 5 IATA, Matrix 2 of 5, NEC 2 ISBT128, Telepen
	2D: Aztec, Hanxin Code, Datamatrix(DPM), PDF417, QR Code, Maxicode, Codablock F, DotCode, Micro PDF417, Micro QR Code, Grid Matrix

PHYSICAL PARAMETER

Dimension	61 x 64.8 x 26mm
Weight	30g
Notification	Beeper
Operation Voltage	DC 4.8V - 16V
Operation Current	350mA(5V DC)
Standby Current	160mA(5V DC)
Interfaces	USB, RS232, 485, TTL, Wiegand

USER ENVIRONMENT

Ambient Light	0 - 100, 000Lux
Operating Temperature	-10°C~50°C
Storage Temperature	-20°C~60°C
Humidity	5%~95% non-condensing
Electrostatic Discharge(ESD)	±8kv contact discharge, ±15kv air discharge
LED Safty Grade	IEC 62471

PRODUCT SPEC SHEET

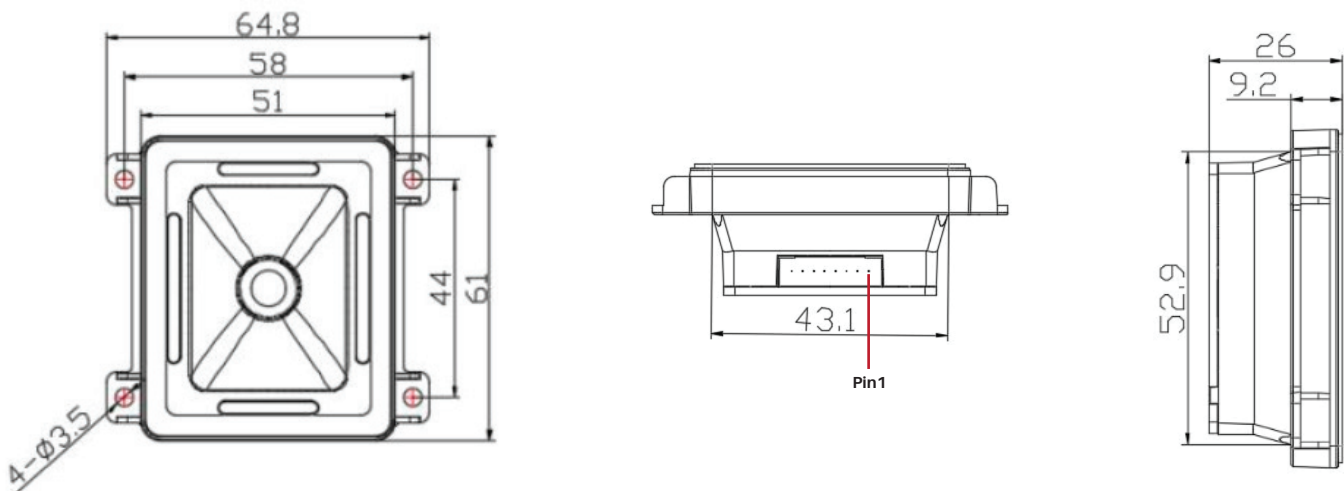Smart Scan Module GMA6165-Y

NFC PARAMETER

NFC Reading Distance	0 - 40MM(in average)
NFC Card Supported	Topaz 512, NTAG215, Mifare DESFIRE D82, Felica lits, Mifare plus 4k(X), etc.

DECODE RANGE

13mil EAN-13	10 - 100MM
5mil Code39	20 - 60MM
15mil QR Code	5 - 80MM

DIMENSIONS

PIN	Definition	I/O	Description
1	POW_IN	-	Power input +5 - 16V
2	GND	-	Power
3	RS232_RX/RS485_B/WG_DATA1	I/O	RS232 receive/RS485_B/Wiegand data1
4	RS232_TX/RS485_A/WG_Data0	I/O	RS232 transmit/RS485_A/Wiegand data0
5	USB_DN	I/O	USB_D- signal
6	USB_DP	I/O	USB_D+ signal
7	LED	O	Decode success indicator
8	nTRIG	I	Trigger key signal

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