

# GMA3527-F Smart Scan Module

The GMA3527-F represents the pinnacle of imaging and decoding technology. With a lightning-fast frame rate of up to 120fps and motion tolerance of up to 6 meters per second, it offers exceptional performance in dynamic scanning environments. Powered by a processor that is 2.5 times faster than previous generations, it can quickly decode challenging barcodes, including those that are poorly printed, damaged, or displayed on mobile screens. Its versatility and power make it ideal for demanding applications in industrial automation, retail, and logistics.

## FEATURES

### Global Shutter

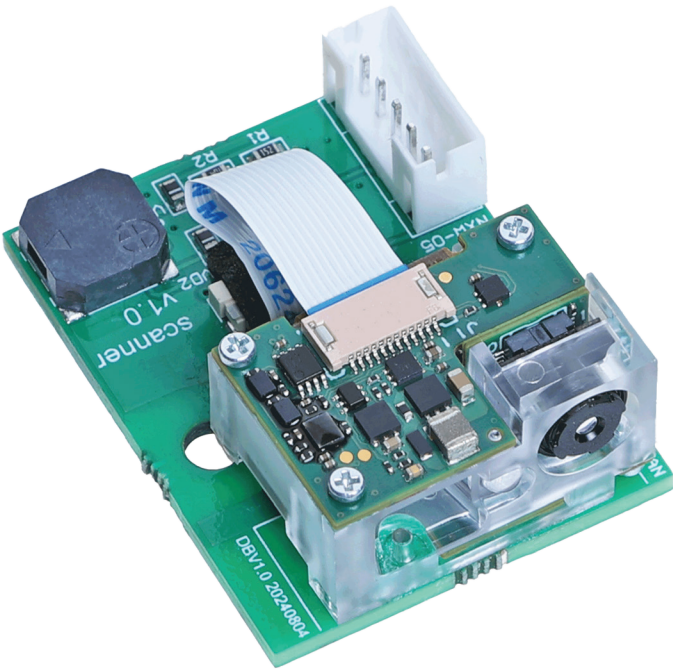
Global shutter ensures that all pixels are exposed simultaneously, making it ideal for scanning moving items.

### • 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      | 1280*960 pixels  |
| Illumination            | White LED  |
| Aiming                  | Red LED  |
| Field of View           | Horizontal 20°, vertical 15°   |
| Screw, Pitch, Roll      | Skew tolerance: ±50° from normal<br>Pitch tolerance: ±50° from normal<br>Roll tolerance: 360° from normal  |
| Supported Symbolologies | 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<br>2D: PDF417, Postal Codes, Micro PDF, Micro PDF417, Code128 Emulation, Aztec, Data Matrix, GS1 Data Matrix, QR Code, GS1 QR, Maxicode, Micro QR, Han Xin, Grid Matrix, Dot Code, OCR |

## PHYSICAL PARAMETER

|                   |                      |
|-------------------|----------------------|
| Dimension         | 35.3 x 26.8 x 13.0mm |
| Weight            | 7.2g                 |
| Operation Voltage | DC 3.3V              |
| Operation Current | 135mA                |
| Interfaces        | Serial Port          |

## USER ENVIRONMENT

|                               |   |
|-------------------------------|---|
| Ambient Light                 | Max 100,000lux (direct sunlight)                      |
| Operating Temperature         | -30°C~60°C  |
| Storage Temperature           | -40°C~70°C  |
| Humidity                      | Up to 95 % relative humidity, non-condensing, at 60°C |
| Electrostatic Discharge (ESD) | ±8kv DC discharge, ±15kv air discharge                |
| Certificates                  | CE, FCC, KC, TELEC, RoHS, EAC ANATEL, NOM             |

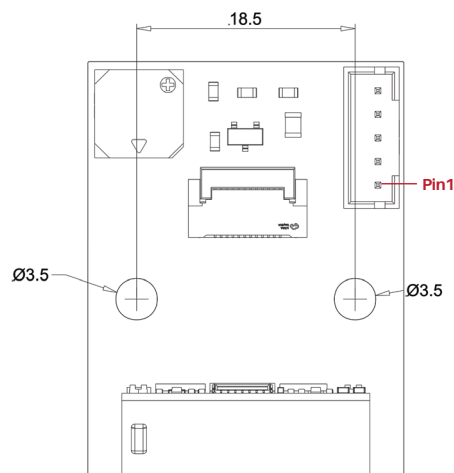
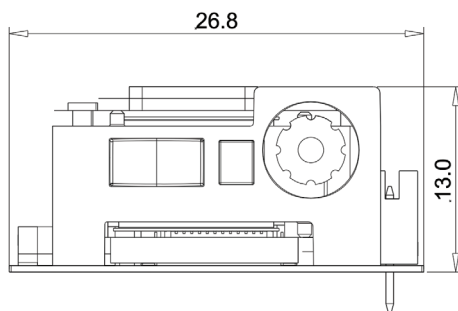
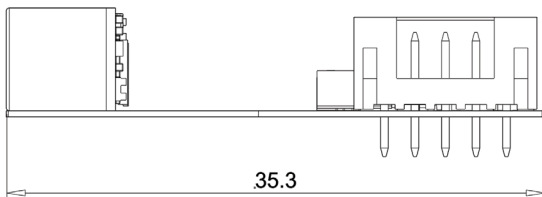
## PRODUCT SPEC SHEET

Smart Scan Module GMA3527-F

### DECODE RANGES

|                      |                  |
|----------------------|------------------|
| 5 mil Code 39        | 45.0MM – 180.0MM |
| 10 mil Code 39       | 36.0MM – 360.0MM |
| 20 mil Code 39       | 71.0MM – 747.0MM |
| 5 mil Code 128       | 56.0MM – 158.0MM |
| 10 mil Code 128      | 33.0MM – 321.0MM |
| 20 mil Code 128      | 53.0 MM– 598.0MM |
| 100% UPCA            | 46.0MM– 390.0MM  |
| 7 mil PDF417         | 55.0MM – 163.0MM |
| 10 mil PDF417        | 42.0MM – 247.0MM |
| 20 mil PDF417        | 81.0MM – 490.0MM |
| 7 mil QR             | 70.0MM – 125.0MM |
| 10 mil QR/DataMatrix | 40.0MM – 182.0MM |
| 20 mil QR            | 36.0MM – 367.0MM |

### 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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