



VM-5GA

Integrate module



VM-5GA
PCB Size: 50*50mm
Antenna: 40*40mm (US)
Antenna: 35*35mm (EU)

Brief introduction

◆ Integrated antenna character

1. Be sensitive and stable to the tags identify.
2. Stable reading distance 2-3 meters.
3. Multi-tags identify, >50pcs tags.
4. Reading distance speed, >50pcs/sec.

◆ Solve the exothermic problem completely.

1. No need for connecting any other outer radiating device. It can work without exothermic reaction in the normal indoor temperature.
2. Sustain electricity < 200mA @ 3.5V (26 dBm Output). Pulse peak current < 260mA.

◆ Outstanding stability:

1. 24 hours x 365 days work normally.
2. Appearance little influenced by cover, electromagnetic environment etc.
3. Wide temperature design and the temperature drift coefficient.

◆ Good consistency:

1. the good design in consistency.
2. Choose the top level components to keep each parameters stable and consistence.

◆ Brief and high efficient interface of hardware and software.

1. Peripheral circuit is very easy. The signal power, no need for extra connecting tantalum capacitor.

◆ Installation method: support 5pin WAFER installation.

Specification

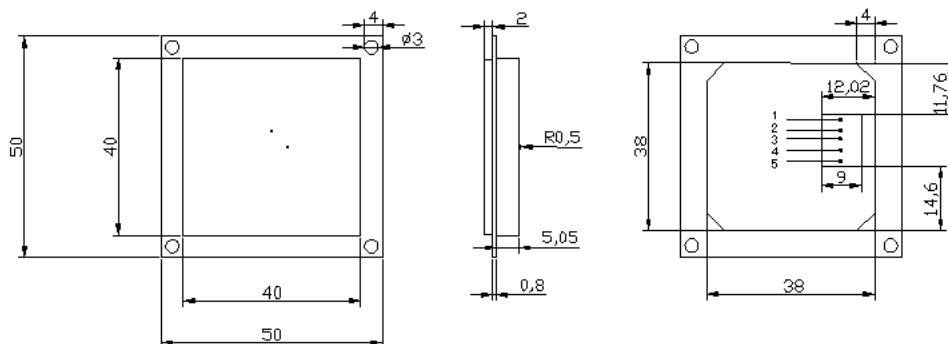
Specification	
Model No.	VM-5GA
Electrical parameters	
Working Voltage	DC 3.5V - 5V
PCB size	Pcb size: 50*50mm , Ceramic antenna size: 40*40mm Overall height : 8.5mm



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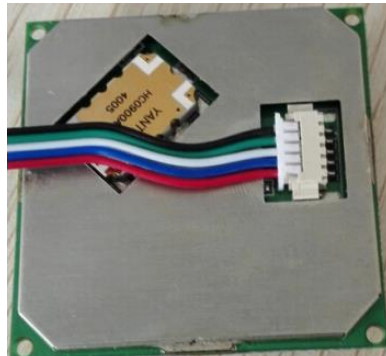
Standby current	<80mA (EN pin high level)
Sleeping current	<100uA (EN pin low level)
Operation current	180mA @ 3.5V (26 dBm Output, 25° C)。 110mA @ 3.5V (18 dBm Output, 25° C)。
Operating time	<100mS。
Operation temp.	- 20 ° C - + 70 ° C
Storage temp.	- 20 ° C - + 85 ° C
Working humidity	< 95% (+ 25 ° C)
Protocol	EPCglobal UHF Class 1 Gen 2 / ISO 18000-6C
Frequency	840-960MHZ
Working area support	US, Canada and other regions following U.S. FCC Europe and other regions following ETSI EN 302 208 Mainland China;Japan;Korea;Malaysia;Taiwan
Output power	18-26 dBm
Read/write range	Read: 200-250cm; write: 10-50cm(adjusted)
Output power accuracy	+/- 1dB
Output power flatness	+/- 0.2dB
Receive sensitivity	< -70dBm
Store tag peak speed	> 50pcs/sec
Tags storage capacity	200pcs tags @ 96 bit EPC
Tags RSSI	support
Communication interface	TTL Uart interface
Communication baud rate	115200 bps (default and recommend) 38400bps
Heat-dissipating method	Air cooling(no need for out install cooling fin)



FPC connector (20Pin , Pin gap 0.5mm)



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PIN	definition	Statement
1	Black --GND	
2	Blue --EN	High Level Enable Module
3	White --RX	
4	Blue--TX	
5	Red --VCC	Power DC 3.5V-5V

For more information, please visit

<http://www.vanch.net>

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