



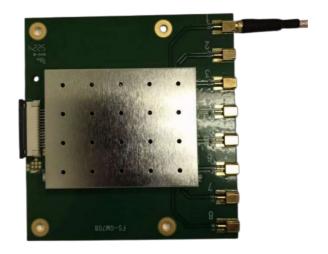
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FAVEPC

FAVEPC FS-GM708-00 8 Port Reader Module



Specifications:

• Model: FS-GM708 Evaluation Kit

• Version: V1.0

• Power Input: DC IN 9~24V B TYPE USB

• RF Connector: MMCX

• Baud Rate: 921600 (default)

• RF Output Power Range: 0 – 33dBm

• Inventory Time: 1000ms (default)

Initial setup

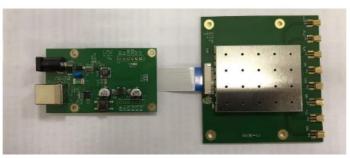
1. Powering the Reader

Plug the power cable in, with the indicator light on & reader is ready. As illustrated below:

2.

DC IN: 9~24V

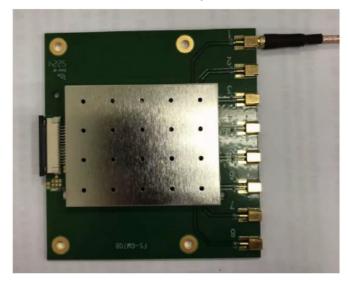
B TYPE USB



MMCX RF connector

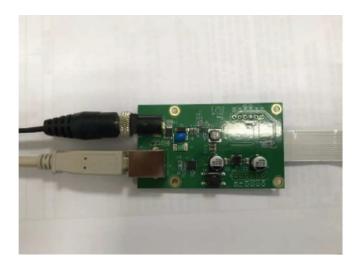
Connecting Antenna to Reader

Connect the antenna with the antenna MMCX port as illustrated below:



3. Connecting Data Line to Reader

You can connect the reader to your PC via B type USB, as illustrated below:

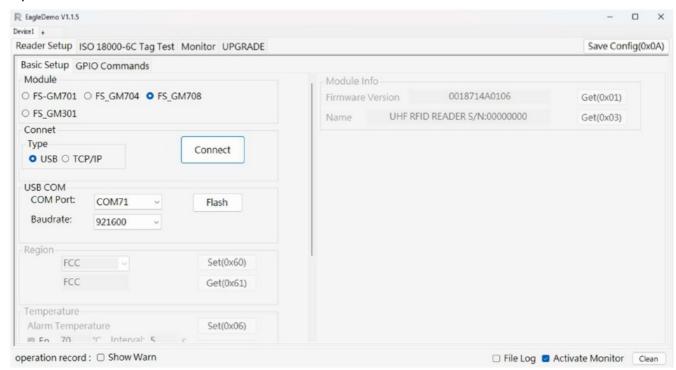


Connect DEMO SW

Double-click EagleDemo.exe to run the software.

Connect

1. Open the software and it will shows as below:



2. Please select USB as Connection, Choose the corresponding Serial Port and Baud Rate (default baud rate is 921600). As illustrated below:



3. Click Connect, if it is connected successfully, the FW version will display as below:



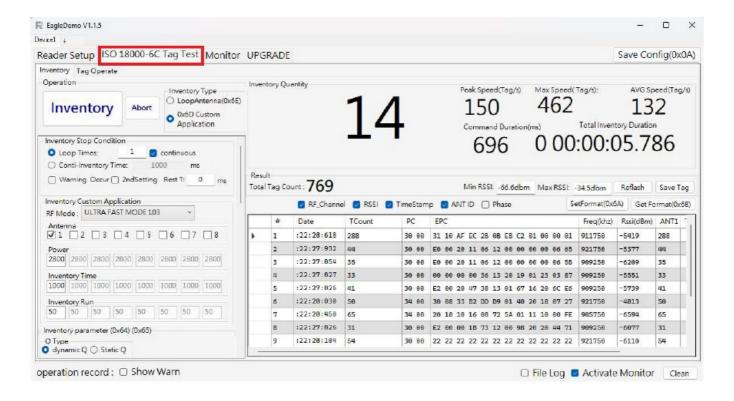
4. Text communication with the reader:

Click on Get in Firmware Version or in Reader Region, the following screen displays:

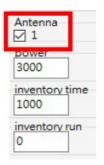


Run Inventory function

After connecting the reader with PC, we can start go Inventory Run function. Please select ISO 18000-6C tag test as illustrated below:



Setp1: Enable ANT 1
 Check mark the ANT1.



2. Setp2: Setting RF Output Power

RF Output Power is the strength of RF output signal from antenna port whose unit is dBm.



The output power range is 0 – 33dBm. Default RF output power is 30dBm.

3. Setp2: Setting Inventory time & Run

Setting Inventory time is mean the running time when start inventory command. Setting Inventory Run is mean the running once when start inventory command.

Inventory stop if which time or run up to the setting value

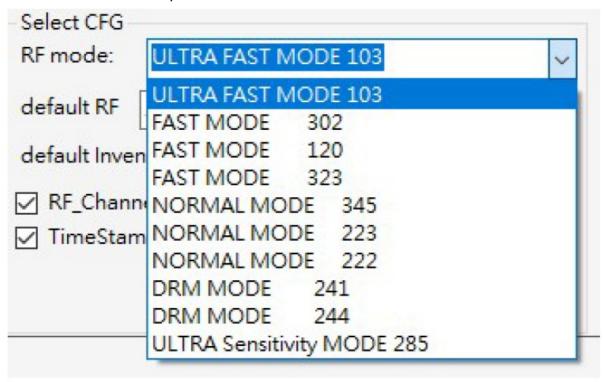


The default inventory time is 1000ms.

The default inventory run is 0, which mean "don't care".

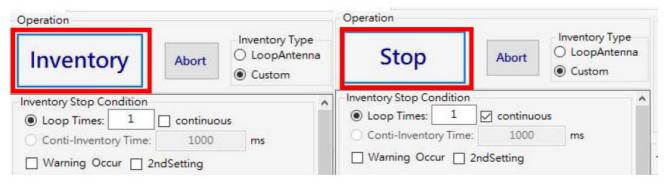
4. Setp3: Setting RF-link mode

There is different read speed & sensitivity in different RF-link mode. To more detail, please check the RF-link profile of datasheet.



5. Setp4: Run/Stop Inventory

click Inventory button to Run Inventory function. click Stop button enforce to stop Inventory function.



6. Parameter of AUTO Stop Inventory

Loop time	Inventory stop when reach the setting of command count.
Conti-Inventor	Inventory stop when reach the setting of Inventory period.

it will no stop if tick continuous

dition -		
1	continuous	
Time:	1000	ms
	1	1 continuous

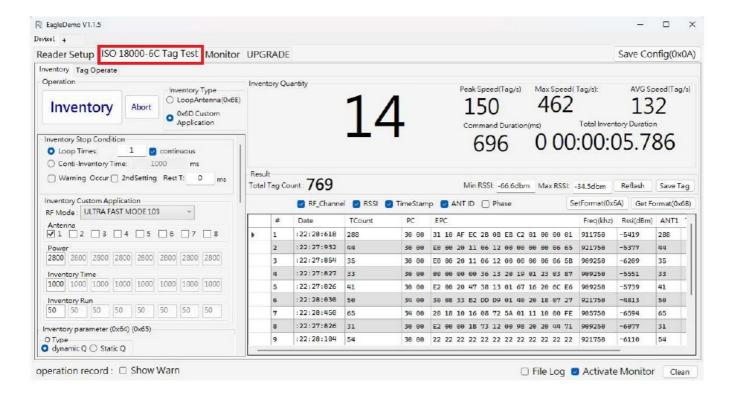
7. The parameter of Running Inventory

There are 13 parameters when run inventory as shown as following.

Inventoried Quantity	Total number of inventory tags since click Inventory .
Peak Speed	Read Speed of Tag for last one inventory command, uni t: Tag/s
Max speed	MAX Read Speed of Tag for total inventory period, unit: Tag/s
AVG speed	AVG Read Speed of Tag for total inventory period, unit: Tag/s
Command Duration	Time between Inventory Command to command, unit:
Total Inventory Duration	Total inventory period when click Inventory , unit: ms.
Total Tag Count	Total tags when start Inventory period.
Count	Tag count

EPC	EPC data of tag.
PC	PC data

CRC	CRC data
RSSI	The Tag signal strength at the last inventory command.
Carrier Frequency	Carrier Frequency of tag at the last time.



Error Display

ANT error:



Reason:

- 1. ANT is Disconnection to ANT port of module
- 2. VSWR is too large of ANT, it should be lower than 1.3
- 3. Reflection RF power too large, please check is there some Metal around ANT.

Receiver data time out:

operation record :	☐ File Log	☐ Activate Monitor
2023-07-03 02:39:54.639 Stop		
2023-07-03 02:40:03.688 Interval Count1: RFMode:103 ANT1 Set		
2023-07-03 02:40:08.885 Interval Count2: RFMode:103 ANT1 Set		
2023-07-03 02:40:14.056 Interval Count3: RFMode:103 ANT1 Set		
2023-07-03 02:40:19.265 Interval Count4: RFMode:103 ANT1 Set		
2023-07-03 02:40:24.451 Interval Count5: RFMode:103 ANT1 Set		
2023-07-03 02:40:32 463 MEX10 SerialReader, message is Receiver TimeOut 3s		

Reason:

- 1. Software CRASH
- 2. Interface CRASH

FCC Caution

15.105 statement

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and

2. This device must accept any interference received, including interference that may cause undesired operation.

Non-modification Statement:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Validity of using the module certification:

In the event that these conditions cannot be met (for example certain laptop configurations or co-location with another transmitter), then the FCC authorization for this module in combination with the host equipment is no longer considered valid and the FCC ID of the module cannot be used on the final product. In these circumstances, the OEM integrator will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate FCC authorization. Custom design antennas may be used, however the OEM installer must following the FCC 15.21 requirements and verify if new FCC approval will be necessary.

End product labeling:

This transmitter module is authorized only for use in device where the antenna may be installed such that 20 cm may be maintained between the antenna and users. The final end product must be labeled in a visible area with the following: "Contains FCC ID: ZDD-FS-GM701-00".

Information that must be placed in the end user manual:

The OEM integrator has to be aware not to provide information to the end user regarding how to install or remove this RF module in the user's manual of the end product which integrates this module. The end user manual shall include all required regulatory information/warning as show in this manual.

Co-location warning:

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

OEM integration instructions:

This device is intended only for OEM integrators under the following conditions:

The antenna must be installed such that 20 cm is maintained between the antenna and users, and the transmitter module may not be co-located with any other transmitter or antenna. The module shall be only used with the external antenna(s) that has been originally tested and certified with this module.

For all products market in US, OEM has to limit the operation channels in Channel 1 to Channel 11 or 3-9 as specified above by the supplied firmware programming tool. OEM shall not supply any tool or info to the end-user regarding to Regulatory Domain change.

As long as 3 conditions above are met, further transmitter test will not be required. However, the OEM integrator is still responsible for testing their end-product for any additional compliance requirements required with this module installed (for example, digital device emissions, PC peripheral requirements, etc.).

Important Notes:

The OEM integrator has to be aware not to provide information to the end user regarding how to install or remove this RF module in the user's manual of the end product which integrates this module. The end user manual shall include all required regulatory information/warning as show in this manual.

Frequently Asked Questions

Q: How do I power on the reader?

A: Plug the power cable into the DC IN port with a power source between 9-24V and connect it via USB.

Q: How do I connect the antenna?

A: Connect the antenna to the antenna MMCX port on the reader.

Documents / Resources

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FAVEPC FS-GM708-00 8 Port Reader Module [pdf] User Manual

FS-GM708-00, ZDD-FS-GM708-00, ZDDFSGM70800, FS-GM708-00 8 P ort Reader Module, FS-GM708-00, 8 Port Reader Module, Reader Module e, Module

References

- User Manual
- FAVEPC
- ♦ 8 Port Reader Module, FAVEPC, FS-GM708-00, FS-GM708-00 8 Port Reader Module, Module, Reader Module, ZDD-FS-GM708-00, ZDDFSGM70800

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