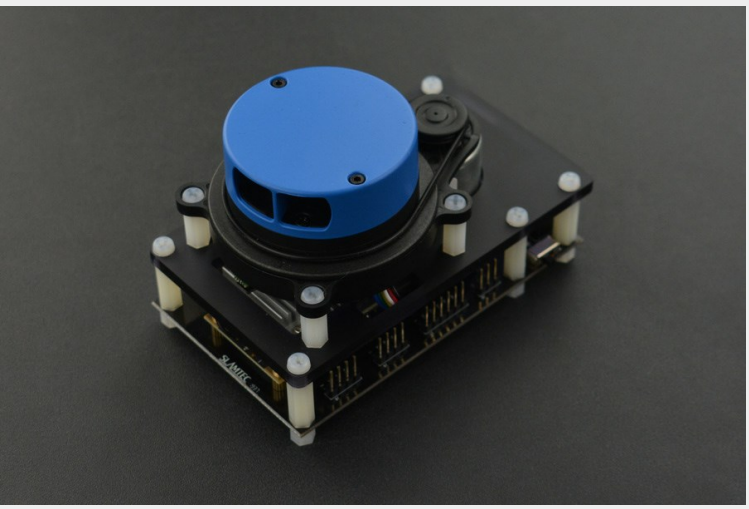
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INTRODUCTION

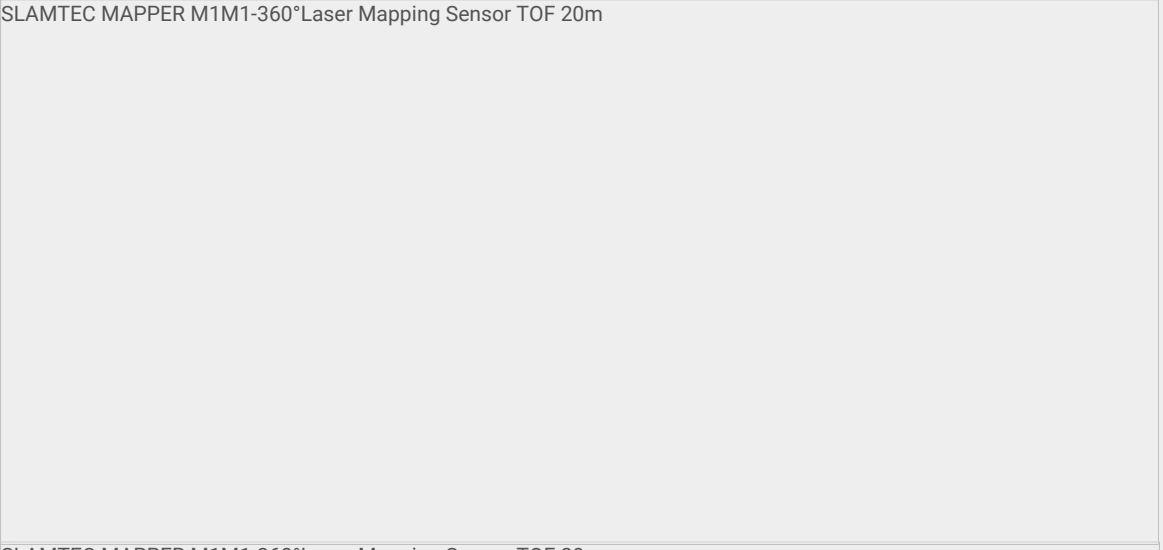
SLAMTEC MAPPER M1M1-360°Laser Mapping Sensor TOF 20m is a new laser range scanner category with built-in mapping and localization feature.

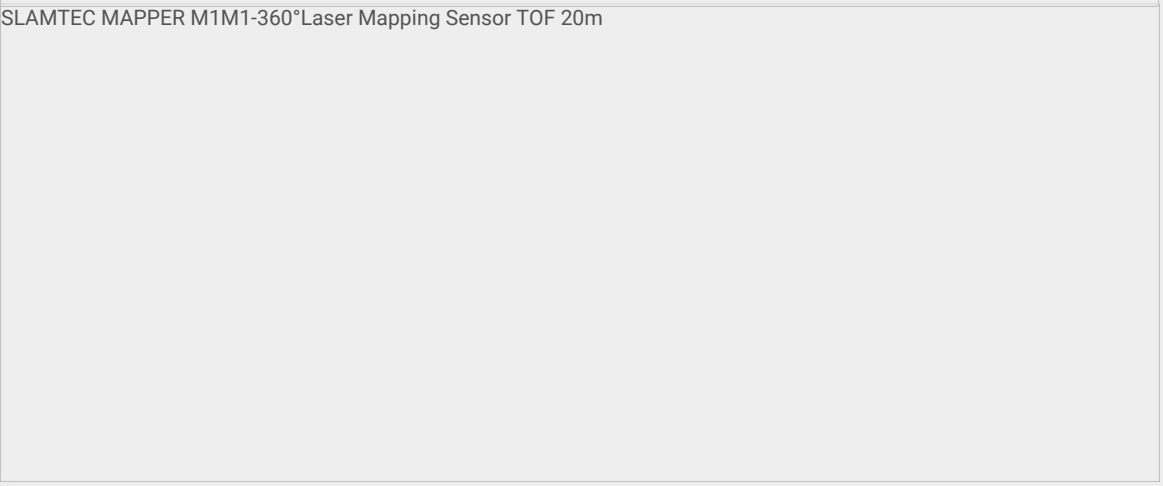
Slamtec Mapper, a new laser range scanner category with built-in mapping and localization, contains the SLAMTEC third generation high-performance SLAM engine and laser range scanner.



Plug and play, without any external dependence. It is suitable to be applied in application fields like robot localization and navigation, environment surveying and mapping and etc.

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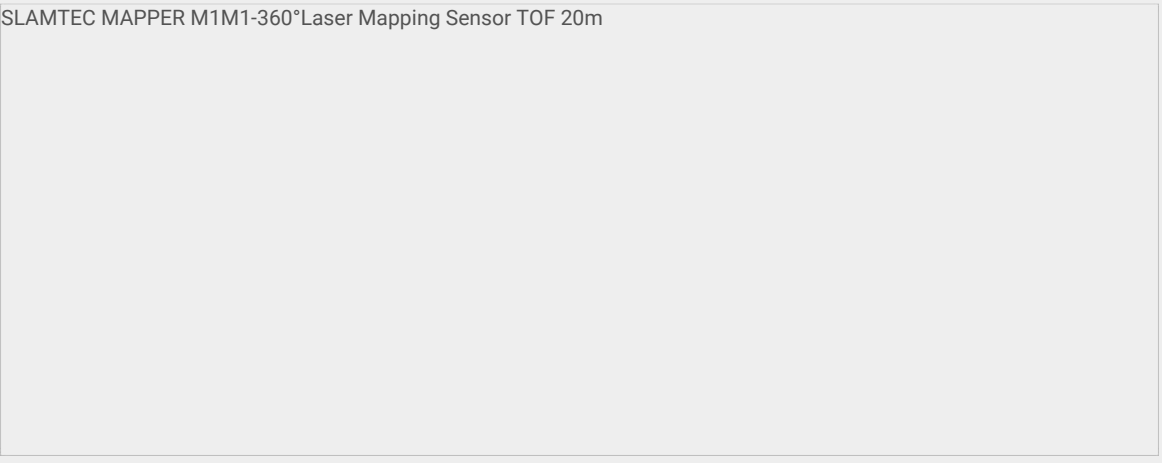




Large Scenarios and High-quality Mapping

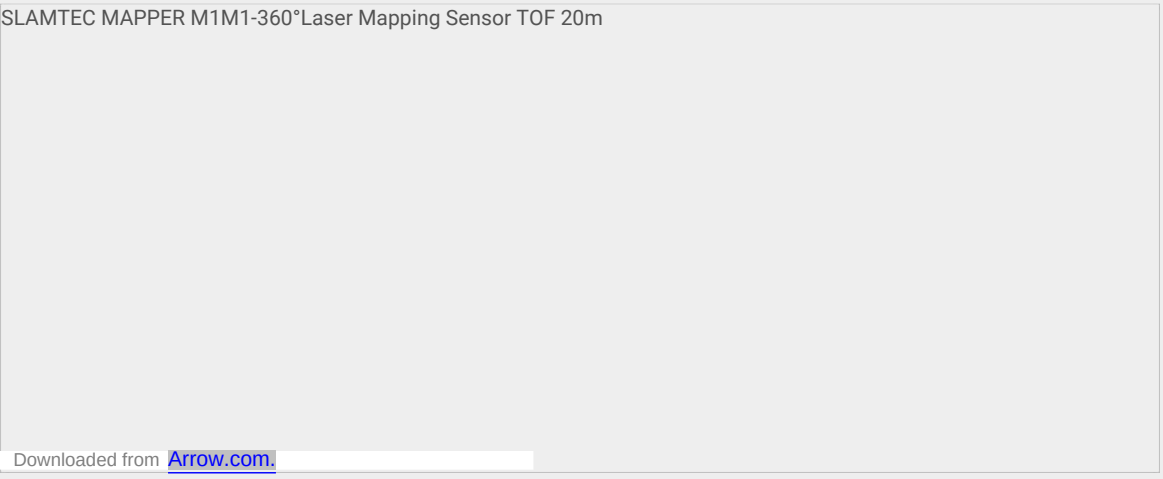
Slamtec Mapper adopts SLAMTEC third generation high-performance SLAM graph optimization engine and SharpEdge™ mapping technology to realize a high accurate thousand-square-meter map building and real time localization, and it can actively detect the closed loop and correct map.

The mapper is an ideal choice for users to realize mapping and re-localization in various complicated scenarios and output map and localization data that meets users' expectations.



Plug and play, without any external dependence

Slamtec Mapper just needs a USB power cable to work well, without any additional support or accessories.



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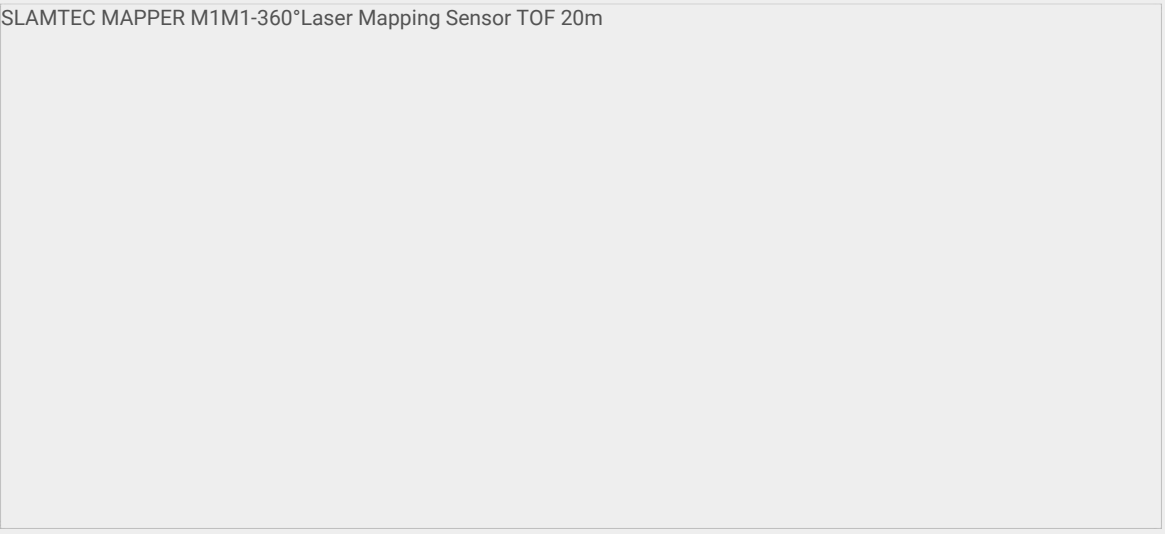
Tilting Compensation and Fast Moving

With built-in inertial navigation system with nine degrees of freedom, Slamtec Mapper can work properly in tilting and shaky hand-held mode and ensure an excellent map data quality. In addition, it supports to move fast with a maximum speed of 1m/s.

SLAMTEC MAPPER M1M1-360°Laser Mapping Sensor TOF 20m

Indoor and Outdoor Availability

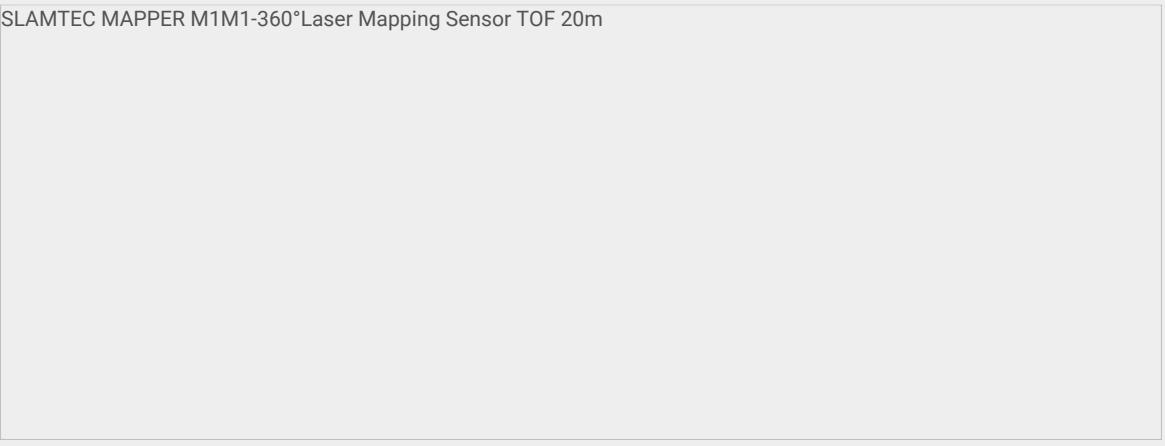
Whether in complicated indoor environment or outdoor environment with direct daylight, Slamtec Mapper shows a good performance in mapping and localization in those complicated scenarios.



Fully Compatible with ROS, Easy Data Analysis

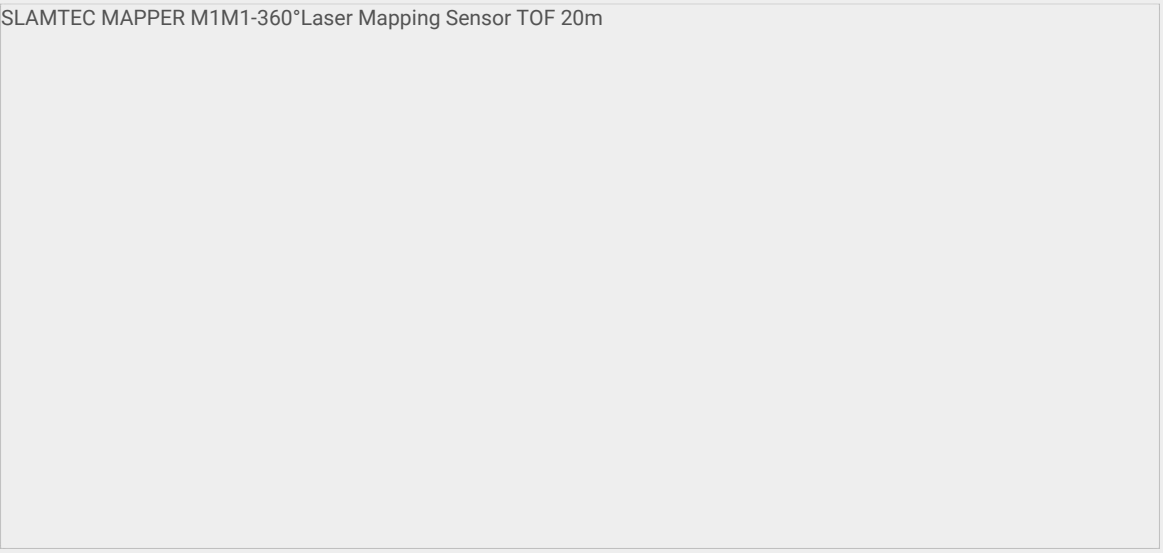
Slamtec Mapper provides completed cross-platform SDK and tools both on phone and PC side for users to evaluate, develop and use.

Through matched ROS driver, you can integrate the generated map and localization data into ROS environment seamlessly.



More Than A Mapper

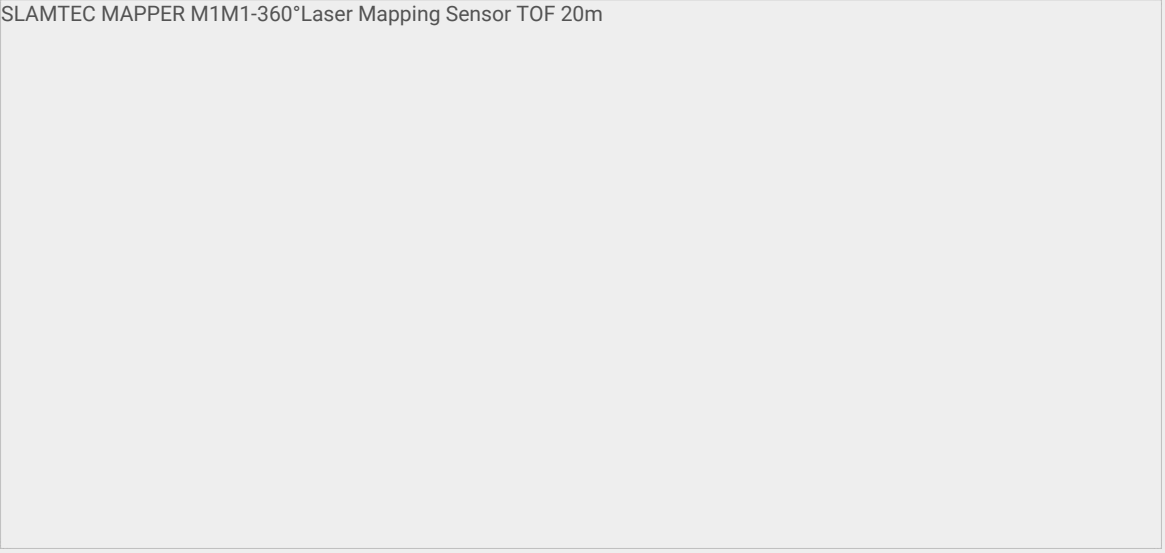
Slamtec Mapper is not only a mapper for mapping and localization, you can also use it directly as a laser range scanner. Via SDK or ROS node, you can easily put the data of the laser range scanner into the user's current system.

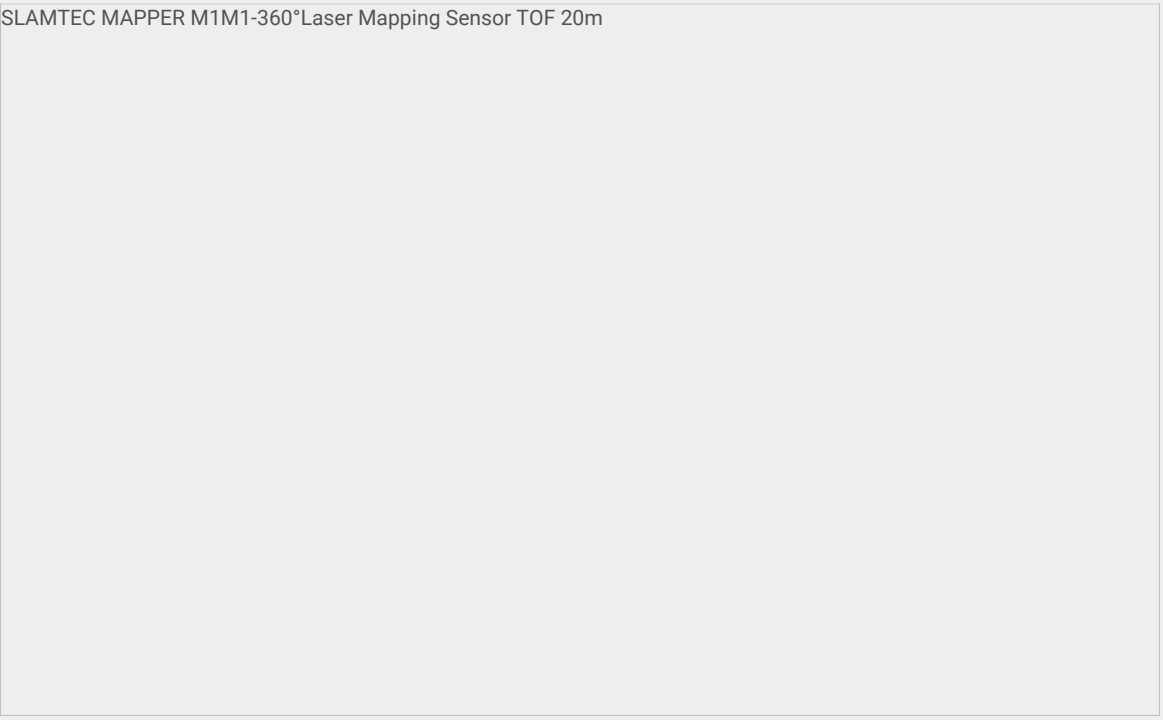


Built-in WIFI, Ethernet port, Easy communication

With built-in access point and station mode WiFi as well as 100M Ethernet port, you can get the real time map and localization data generated by Slamtec Mapper through designed mobile application.

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SPECIFICATION

- Distance Range: 20m
- Sample Rate: 7K
- Max Mapping Area: 300m x 300m
- Resolution: 5cm
- Max Moving Speed: 1m/s
- Max Rotate Speed: TBD
- Re-localization Accuracy: ＜0.02m
- Map Optimization Duration: About 1 hour
- Slope Angle: ±3°
- Data Refresh Rate: 8Hz

SHIPPING LIST

- SLAMTEC MAPPER M1M1-360°Laser Mapping Sensor TOF 20m x1

TUTORIAL

Laser Radar Selection Guide (Part 1)

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Laser Radar Selection Guide (Part 1)

Laser Radar

2020-03-13 16:17:05

REVIEW

FAQ

12 Comments DFRobot Disqus' Privacy Policy Login

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n the discussion...

Caleb de la Vara • 4 months ago

Hi, what does the development kit include?

• Reply • Share ›

MyOpinoin • 5 months ago

Hi, my m1m1 has stopped responding to wifi and ethernet but it boots up as normal ~20 seconds and the sensor spins up. I contacted slamtec for more information but they said to contact DFRobot for further advice. Please help.

• Reply • Share ›

MyOpinoin ➔ MyOpinoin • 5 months ago

No reply, even by email. Buyer beware.

• Reply • Share ›

taichichuan • a year ago • edited

Unfortunately, there is no documentation for the pin-outs on the board. So, as neat as it is, it's totally useless. Additionally, the robostudio does not allow you to log in once you've created a user ID and password (and clicked the acknowledge link they email you). And, without robostudio, there's not much you can do with the device.

Things that are missing:
A description of the hardware.
What processor is it? How many cores?
Is it running Linux?
If so, what distribution and version?
Can I update it?
How much RAM does it have?
Storage? I don't see an SD card. So, how much storage does it have and how do I get to it?
Does it run SSH out of the box?
What is the root password?
What are the pin-outs for the .1" connectors along the side of the board?
Where can I get the funky connectors from the same side as the Lidar plugs in?
What are those pin-outs?
What is the protocol on the control bus?

Since the robostudio interface appears to be non-functional, what else can I do with this? Is there a robot platform that it plugs into someplace? How do I get that?

In order to actually use this thing for something other than a conversation piece, we need a lot more information.
So, while they appear to have lots of documentation on their site, there is not enough to actually be able to use the unit for anything more than their canned demo. At this point, this is a very expensive paperweight.

• Reply • Share ›

MyOpinoin ➔ taichichuan • a year ago

The datasheets I got from the Slamtec site seems comprehensive. Robostudio works ok as well. Shame it needs an active internet connection to phone home to mothership, for local map making. Would be really nice to do this offline but I guess thats why there is an SDK. Developer tool, not an out of the box working gadget.

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taichichuan ➔ MyOpinoin • a year ago

The datasheets for the Lidar itself are quite comprehensive. I'm talking about the hardware that's driving the M1M1. There's a processor with RAM and storage running some operating system (ostensibly Linux). But, I can't really [illegible] much because I don't even have a root password for the device. I'm assuming it's ARM based. But, which

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ARM core? And, the pin-outs on the controller board are completely undocumented. So, given all of that mystery meat, the SDK will do you no good because you don't know what you're developing on.

• Reply • Share ›



DFRobot Support Mod ➔ taichichuan • a year ago

Hi
You can send one email to support@slamtec.com
He will give you more answer.

• Reply • Share ›



taichichuan ➔ DFRobot Support • a year ago

Unfortunately, the response from Slamtec Support was less than I hoped for:
This function is not open to customers.

And, all of the pieces of info regarding the RAM, storage, processor type, etc. where met with:

All the info about the above questions are not open to public. The pins which are not mentioned in the datasheet are not for customers to use. Mapper doesn't use control bus. To use it, you should use the ethernet cable(or Wifi) to connect it with upper system like PC.

So, this is not a slam on DFRobot. I've been dealing with them happily for many years. However, I can't in good conscience recommend this device for anyone trying to use it for anything other than a curiosity. Without any of the simple pieces of information I asked for, your only option is to try to RE the device and that's more trouble than it's worth.

• Reply • Share ›



DFRobot Support Mod ➔ taichichuan • a year ago

I'm very sorry to bother you.
We do have not these imformations.

• Reply • Share ›



Keep Secret ➔ DFRobot Support • a year ago

This information is something you must have

• Reply • Share ›



Andy Pratt • 2 years ago

I am interested in the M1M1. Do you know if Slamtec's website is permanently down, or just a temporary glitch? Thank you.

• Reply • Share ›



DFRobot Support Mod ➔ Andy Pratt • 2 years ago

It worked yesterday. I think it's just temporarily down.

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