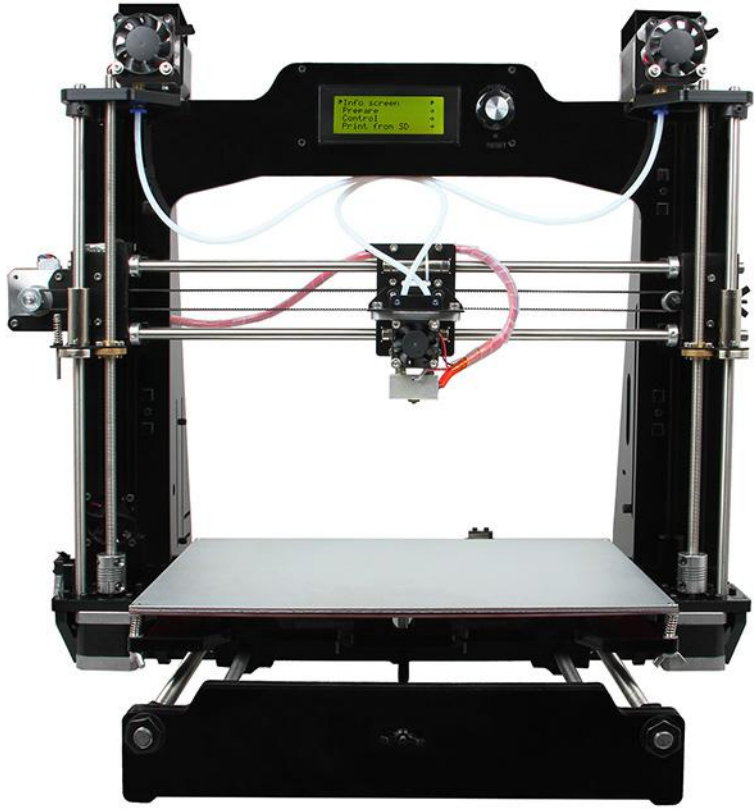
Geeetech Prusa I3 M201



Copyright Declaration

Technical Support

If you are interested in the technology of 3 D printing, flight control and U-home, welcome to Geeetech, we have series of made-up products, main boards, modules and a variety of peripherals for you. Or if you are looking for relevant information or technical support, please login our Forum where you can find anything you want about open source. To know more about our new products, please visit www.geeetech.com, we will serve you wholeheartedly.

SAFETY INSTRUCTIONS

Building the printer will require a certain amount of physical dexterity, common sense and a thorough understanding of what you are doing. We have provided detailed instructions to help you assemble it easily, please download at geeetech.com.

However ultimately we cannot be responsible for your health and safety whilst building or operating the printer, with that in mind be sure you are confident with what you are doing prior to commencing with building or buying. Read the entire manual to enable you to make an informed decision.

Building and operating involves electricity, so all necessary precautions should be taken and adhered to, the printer runs on 24V supplied by a certified power supply, so you shouldn't ever have to get involved with anything over 24V but bear in mind there can still be high currents involved and even at 24V they shouldn't be taken lightly.

High temperatures are involved with 3D Printing, the Extrusion nozzle of the hot end can run about 230 ℃, the heated bed runs 110 ℃ and the molten plastic extruded will initially be at around 200 ℃, so special care and attention should be made when handling these parts of the printer during operation.

We wouldn't recommend leaving your printer running unattended, or at least until you are confident to do so. We cannot be held responsible for any loss, damage, threat, hurt or other negligent result from either building or using the printer.

INTRODUCTION:

Geeetech Prusa I3 M201 is the 2-in-1-out version of our latest Prusa I3 series 3D printer. This is a fused filament fabrication printer, easy to use and also designed for DIYers and professionals alike.

The M201 features our newly engineered the 2-in-1-out switchable hotend, that feeds 2 filaments through one nozzle. With the new 2-in-1-out hotend the M201 can work like a color palette, providing a new level of expression with your prints allowing you to create alternating colors, blending color and gradients.

In order to achieve this we optimized the firmware that is driven by our newly developed GTM32 pro Vb control system, which is based on the STM32 processor and paired with the ARM Coretex M3, running a dominant frequency of 72MHz, greatly improving the overall printing performance.

We added a new feature, the Mixer, to the interface to control the percentage of the feed rate of the two filaments. To prevent the extruder from becoming jammed from over fused filament detained in the barrel we added an over fused protect feature or OFP which is enabled by default and keeps things running smooth.

This M201 3D printer maintains DIY property, with which you can unleash your creativity to refit or modify it as you like. This kit is just the beginning; you can get more out of it.

PACKAGE LIST:

This list includes all the parts required to assemble your Geeetech Prusa I3 M201 3D Printer. After you received your package, please check if all the parts listed are included. Also make sure all the components are in good condition and not damaged during shipping. If anything is missing please contact with our customer service straight away, provide us the NO. , Name, and Qty.

No.	Name	Specifications	Qty	Pic.
1	Smooth Rod	D8*L340mm Z axis	2	
2	Smooth Rod	D8*L470mm X axis	2	
3	Smooth Rod	D8*L420mm Y axis	2	
4	Lead screw	M8*L320mm Z axis	2	
5	Threaded Rod	M10xL450mm Y axis	2	

6	M2.5 Washers	M2.5	8	
7	M3 Washers	M3	110	
8	M4 Washers	M4	30	
9	M10 Washers	M10	15	
10	Spring washer	M10	8	
11	Hex Nut	M2.5	5	
12	Hex Nut	M3	15	
12A	Hex Nut	M4	18	
13	Hex Nut	M10	13	
14	Lock nut	M4	4	

15	Wing nut	M3	8	
16	Z-axis nut	TR808	2	
17	Square nut	M3	40	
18	Hex Counter-sunk-head screw	M3x16 mm	3	
19	Hex Counter-sunk-head screw	M3x30 mm	5	
20	Screw	M2.5x8mm	3	
21	Screw	M2.5x16mm	5	
22	Screw	M3x6mm	37	
23	Screw	M3x8mm	3	
24	Screw	M3x10mm	5	
25	Screw	M3x12mm	25	

26	Screw	M3x16mm	40	
27	Screw	M3x20mm	10	
28	Screw	M3x25mm	5	
29	Screw	M3x30mm	2	
30	Screw	M3x40mm	2	
31	Screw	M3x45mm	2	
32	Screw	M4x 6mm	8	
33	Screw	M4x12mm	13	
34	Screw	M4x16mm	18	
35	Screw	M4x25mm	4	
36	Spring	4*20	6	
37	locking ring	M8 / With screw	8	
38	Belt mount	Sheet metal part	1	
39	Linear Bearing	PCS8UU	4	

40	Linear Bearing	LM8LUU	2	
41	Linear Bearing	LMH8LUU	2	
42	Driven wheel holder	Sheet metal part	2	
43	Driving wheel		2	
44	Ball Bearing	MR84zz（Placed in No.43）	4	
45	Pulley	20 tooth Inner D5	2	

46	Timing Belts	2GT L=2.4 meters	1	
47	Belt bracket	Plastic part	1	
48	Couplings	5-8mm	2	
49	Spacer	With Aircraft type end	8	
50	Knob	For LCD	1	

51	Fan	40x40x10mm	1	
52	Extension wire	2-pin F-M	1	
53	USB cord	A-B	1	
54	End stop kit	2-pin Blue, red and black	1	
55	Heat sink	9*10*5mm	5	

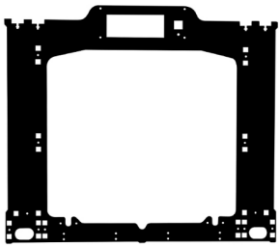
56	Sticker		2	
57	Spiral Coil	1 meter	1	
58	Heatbed wire		1	
59	Heatbed	24V	1	
60	Building platform	Alumina plate	1	

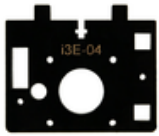
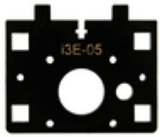
61	Power supply Unit	AC Input: 115V/1.5A 230V/0.75A DC Output： 24V/10-15A	1	
62	3D Power Cable	With plug	1	
63	Power Cable	Connect board to PSU	1	
64	Stepper motor		4	

65	3-1 motor wire	For X/Y/ left Z motors	1	
66	motor wire	700mm For Right Z motor	1	
67	Extruder		2	
68	Extension board		2	
69	Hex copper spacer		4	
70A	Extruder wire	820mm	1	

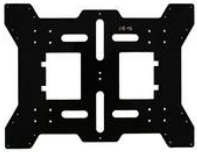
70B	Extruder wire	450mm	1	
71	Extruder Motor wire	6-4pin	2	
72	Hotend	2 in-1out	1	
73	LCD 2004	LCD2004+ FPC Ribbon cable	1	
74	Control board kit	GTM32 pro Vb + 5 A4988	1 set	

75	Feeding pipe	PTFE L=1meter	2	
76	Nylon ties		30	
Metal parts				
M1	X- motor end	Sheet metal part	1	
M2	X-idle end	Sheet metal part	1	

M3	X Carriage	Sheet metal part	1	
M4	Bearing Bracket	Sheet metal part	4	
M5	Extruder holder	Sheet metal part	1	
M6	Extension board cover		2	
Acrylic parts				
A1	Main frame	I3E-01	1	

A2	Side panel (left)	I3E-02	1	
A3	Side panel (right)	I3E-03	1	
A4	Motor holder (left)	I3E-04	1	
A5	Motor holder (right)	I3E-05	1	
A6	Motor Holder support	I3E-06	3	

A7	Motor Holder support	I3E-07	1	
A8	Z top mount	I3E-08	2	
A9	Y axis Front support	I3E-09	1	
A10	Y axis Front support	I3E-10	1	
A11	Y axis Rear support	I3E-11	1	
A12	Y axis Rear support	I3E-12	1	
A13	Y motor holder	I3B1-13	1	

A14	Connecting fender	I3E-14	2	
A15	Building platform support	I3E-15	1	
A16	Fan mount	I3E-16	1	
Free add-on				
1	Ejector pin		1	
2	File		1	
3	Screw-driver		1	

4	Starter filament	3 meters	1	
5	Filament holder set		1	

For detailed build instructions, please subscribe our YouTube for videos.

https://www.youtube.com/user/geeetech/playlists

Download the build instruction PDF at

http://www.geeetech.com/geeetech-prusa-i3-m201-3d-printer-diy-kit-p-965.html

GENERAL CARE AND MAINTENANCE

As with all the electronic equipment, it is important to keep your printer clean to extend its life. Regularly remove dust and debris with a microfiber cloth or compressed air. Dredge the tube and the nozzle after use every time to ensure fluent performance.

- Don’t leave the heaters on the printer turned on for a long periods of time when not used.
- Don’t leave your printer in shady and moist places, which may exacerbate the problems associated with erosion.
- The three axes of the Geeetech Prusa I3 M201 are lubricated with grease for smooth operation and can last for a long time. Grease may need to be re-applied to your printer to maintain smooth performance.
- Avoid positioning your power supply unit in such a way that the brick is hanging, pulling, or putting any unnecessary stress in the electrical wires and components.

SUPPORT

Thanks for choosing Geeetech, we strive to provide a satisfied and pleasant shopping experience for you, but we do understand there may be some questions you may encounter in using our product. If so, you can contact us directly or post on our forum, our technique staff will help you resolve it. For more detailed information, you can also visit Geeetech wiki from our home page. (http://www.geeetech.com)

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www.geeetech.com