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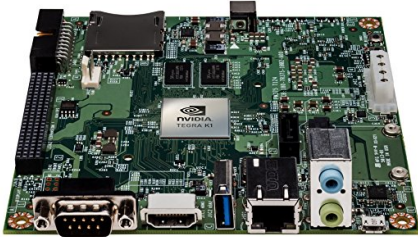





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NVIDIA Jetson TK1 Development Kit

by NVIDIA

22 customer reviews

17 answered questions

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In Stock.

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- NVIDIA Kepler GPU with 192 CUDA cores
- NVIDIA 4-Plus-1 quad-core ARM Cortex-A15 CPU
- 2 GB memory, 16 GB eMMC
- Gigabit Ethernet, USB 3.0, SD/MMC, miniPCIe
- HDMI 1.4, SATA, Line out/Mic in, RS232 serial port
- Expansion ports for additional display, GPIOs, and high-bandwidth camera interface

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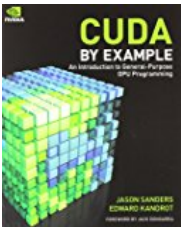


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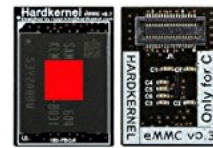
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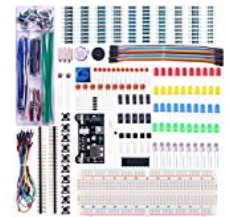
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Development Kit



(NM10-DTX WIFI)



Motherboard GALILEO1.Y



Motherboard - M880GITX-A-E

Customer Rating	(22)	(16)	(8)	(6)
Price	\$192.99	\$49.99	\$44.99	\$49.99
Shipping	FREE Shipping	\$9.81	\$9.00	\$9.96
Sold By	Amazon.com	SabrePC	RobotShop Inc.	SabrePC
Chipset Type	Information not provided	intel_nm10_express	Information not provided	AMD M880G
Processor Socket	NA	Intel Atom D510	NA	LGA 1156
Device Type	Motherboards	Motherboards	Motherboards	Motherboards
Item Dimensions	5 x 5 x 1 in	8 x 2.8 x 8 in	2.8 x 4.2 x 1 in	8.25 x 8.25 x 3 in
Item Weight	1.1 lbs	2 lbs	0.68 lb	2.2 lbs
Memory Slots Available	0	2	0	2
RAM Memory Technology	DDR3L	DDR2 667;DDR2 800	DDR2 1066	DDR3-SDRAM
Supported Motherboard	Information not provided	Information not provided	ATX	Information not provided
Total Pci Slots Free	Information not provided	Information not provided	0	2
Total SATA Ports	1	6	0	6

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Product Description

The NVIDIA Jetson TK1 development kit gives you everything you need to unlock the power of the GPU for embedded applications. It's built around the revolutionary NVIDIA Tegra K1 SOC and uses the same NVIDIA Kepler computing core designed into supercomputers around the world. This gives you a fully functional NVIDIA CUDA platform that will let you quickly develop and deploy compute-intensive systems for computer vision, robotics, medicine, and more. NVIDIA provides the entire BSP and software stack, including CUDA, OpenGL 4.4, and the NVIDIA VisionWorks toolkit. With a complete suite of development and profiling tools, plus out-of-the-box support for cameras and other peripherals, NVIDIA gives you the ideal solution for helping shape the future of embedded.

Product Information

Technical Details

Collapse all

Summary

RAM	DDR3L
Graphics Coprocessor	NVIDIA
Chipset Brand	NVIDIA
Graphics Card Ram Size	2 GB

Other Technical Details

Brand Name	NVIDIA
Item model number	CD575M
Item Weight	1.1 pounds
Product Dimensions	5 x 5 x 1 inches
Item Dimensions L x W x H	5 x 5 x 1 inches
Color	Green
Processor Count	4
Power Source	DC

Additional Information

ASIN	B00L7AWOEC
Customer Reviews	<div>22 customer reviews</div> 4.1 out of 5 stars
Best Sellers Rank	#148 in Computers & Accessories > Computer Components > Motherboards
Shipping Weight	1.4 pounds (View shipping rates and policies)
Domestic Shipping	Currently, item can be shipped only within the U.S. and to APO/FPO addresses. For APO/FPO shipments, please check with the manufacturer regarding warranty and support issues.
International Shipping	This item can be shipped to select countries outside of the U.S. Learn More
Date First Available	June 23, 2014

Warranty & Support

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https://www.amazon.com/NVIDIA-Jetson-TK1-Development-Kit/dp/B00L7AWOEC

3/7

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See questions and answers

Customer Reviews

22
4.1 out of 5 stars

5 star

68%

4 star

14%

3 star

9%

2 star

9%

1 star

0%

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Top Customer Reviews

Best ARM 32 Bit dev board 2014

By [Peter Bauer](#) on July 11, 2014
From my viewpoint as an experienced Linux user its currently the best and fastest ARM 32 Bit based low power board you can buy. While software support is not perfect yet, it runs Ubuntu 14.04 out of the box and offers hardware accelerated graphics and video output.

pros: Ubuntu 14.04 LTS with Unity prepared on the on-board e-MMC storage memory
Good multimedia support (video playback with sound output is working in fullHD)
Good support from manufacturer on his forum
Power usage about max 10 Watts under high load / typical 5 Watt during desktop use
XBMC works out of the box, Youtube and Flash support can be installed for the Chromium Browser
Mainline kernel support is expected with Kernel 3.16
GPU programming (CUDA) is supported

cons: Drivers for Bluetooth and WIFI not yet included in the Nvidia kernel(July 2014), but a custom kernel called "grinch" with extended features is available for download.
The board has not a standard size - finding a case is a challenge
You will need an external active USB 3.0 hub because it has only one USB 3.0 port
Is delivered with a fan for cooling, but passive cooling might be possible

More infos can be found on my blog bitkistl.
<http://bitkistl.blogspot.com>

4 Comments 34 people found this helpful. Was this review helpful to you?

Yes

No

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Could have been a lot better.

By [hoodel](#) on May 4, 2015
Verified Purchase
If the point is to provide an inexpensive GPU platform for development, this system misses the mark. The ARM/Ubuntu architecture has little support for any pre-built packages, and the performance is not that great. The bios does not allow for booting from alternate devices. Instead, the OS is flashed in via a separate host [Linux] machine. ... which I have had to do often. Others may have better luck, but I can't let it run Software Update or else it turns itself into a brick.

The mounting pattern doesn't seem to conform to any standard. Amazon suggests the Silverstone

Customer Images

Most Recent Customer Reviews

Five Stars
Excellent
Published 5 months ago by Amazon Customer

Five Stars
Great product delivered on time.
Published 8 months ago by Amazon Customer

Four Stars
Wonderful purchase and transaction.
Published 8 months ago by John Williams

Five Stars
very nice
Published 9 months ago by joygram

Five Stars
Works great. Powerful little computer.
Published 13 months ago by Samuel

works very welll - great for gaming
works very welll - great for gaming... dont bother with computer vision applications

also if you plan on using the cuda cores - break out the cuda books and c++ ide and... [Read more](#)
Published 14 months ago by Daniel Rodriguez

Tek Aluminum Top Cover/Steel Body Thin Mini-ITX Media Center/HTPC Case PT13B - Black as an enclosure. This turns out to be a poor choice. The mounting holes do not align (at all), and the Jetson TK1 does not provide a USB header to take advantage of the USB ports.

[4 Comments](#) 17 people found this helpful. Was this review helpful to you? [Report abuse](#)

NVIDIA has put together an amazing board here

By [Dustin](#) on August 4, 2014

NVIDIA has put together an amazing board here. With hardware that is many times more powerful than the RaspberryPi and other small/low power SoC mini PC's, this has the performance and expandability to handle a wide variety of uses. I hope though strong sales the price will be able to come down (due to manufacturing efficiency and the accessories market will pick up).

Uses for these boards range from a 2nd desktop, network router (with a 2nd Ethernet port coming off the pcie slot and maybe a USB wifi adapter), or a file server, and perhaps the largest potential: an extremely efficient HTPC to play media on your TV.

The existing arm boards are too slow for many functions and too expensive for what they offer. Now we just need this to come down in price a little bit and include a case & power brick and they will be flying off the shelf.

But be aware, this board currently only supports Ubuntu OS (no support for Windows on ARM or Android) although again if this becomes popular we may see other options open up.

[2 Comments](#) 12 people found this helpful. Was this review helpful to you? [Report abuse](#)

Noisy, unstable

By [J. Suppe](#) on June 19, 2015

Verified Purchase

I was hoping this device would cut it as a replacement for my aging Linux desktop computer / home server. Unfortunately, it did not. I was excited about the CUDA cores to do some accelerated image processing and neural net training, but device is just too buggy. It will crash when left alone idle. Besides this it's fan squeaks and screams, even when enclosed (I built a custom Lego case). Besides these seemingly hardware problems (not sure about the crashing) the software was just OK. I never got excited about the device despite it sitting on my desk for weeks, in sharp contrast to my Raspberry Pi, which is solid as a rock.

It was a fun project for a while and had huge potential, but I could just not live with the sound and the crashing for even semi serious hobbying



[2 Comments](#) 18 people found this helpful. Was this review helpful to you? [Report abuse](#)

Not much experience yet, but installation and slightly using it has been really

cool

By [Fred.5133](#) on May 24, 2015

Verified Purchase

I haven't been able to use it a lot yet, but it is really a charm to find so much documentation. It works out of the box, and, if you want to configure it further for any type of application, it is possible to find lots of people giving recommendations and advice.

You can notice that NVIDIA is really investing on this project.

[Comment](#) 2 people found this helpful. Was this review helpful to you? [Report abuse](#)

Good - A descent CPU

By [Ruthless](#) on July 27, 2016

Verified Purchase

Review from the perspective of a developer/IT/academia.

Good -

A descent CPU, powerful GPU

mPCIe slot

Comes with SOC fan.

Barrel power connector instead of a fickle micro USB.

Web site with drivers, images and documentation.

Bad-

No OpenCL !!!!!???

Only CUDA for the GPU....

Works like a charm using grinch

kernel

Build a basic PC by sticking this on the back of a 24" TV screen I picked off the street. Works like a charm using grinch kernel. Can use it as a TV as well via XBMC.

Published 16 months ago by T. Dhar

Five Stars

Great little board for doing some CUDA programming.

Published 19 months ago by digital_will

Search Customer Reviews

\$200 for a CUDA only device with only 2GB shared RAM.

Minor gripes-
Only one USB A.
Foot print is big and tall (fan is high).
Only 2GB shared between gpu and gpu.
32 bit.

Comment

Was this review helpful to you?

Yes

No

Report abuse

Awesome service and quality!

By [Cazadero](#) on February 14, 2015

Verified Purchase

Delivered on the same day! It turns out one of the team members lives in the same area as I do, so dropped it off personally with a nice note.

The board looked new and included cables, even though it doesn't even come with cables and I bought a used device. I highly recommend these guys!

Comment

One person found this helpful. Was this review helpful to you?

Yes

No

Report abuse

Nice board

By [amznPrime](#) on August 15, 2014

It an excellent board. It is much faster than my raspberry pi. Linux is used as OS for this board. I use this board to setup a flask server using python and it is working great.

Comment

6 people found this helpful. Was this review helpful to you?

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715

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