

Paperback

\$35.00

\$11.96

Frequently Bought Together



✓ SanDisk Ultra 32GB UHS-I/Class 10 Micro SDHC Memory Card With Adapter - SDSDQUAN-032G-G4A \$11.96

Sponsored Products Related To This Item (What's this?)



Numato Lab Galatea PCI Express Spartan 6 FPGA Development Board \$299.95



TRENDnet 100/1000Base-T to SFP Media Converter (TFC-1000MGA)

\$42.97



APC Back-UPS 600VA UPS Battery Backup & Surge Protector with USB Charging Port (BE600M1) 4,654

\$55.60



2016 HP Pavilion 15.6 Inch Touchscreen Premium Flagship Laptop (Intel Core i5-6200U up...

\$499.00



LiCB 18650 Batteries Rechargeable Lithium ion Battery 6800mAh 3.7v 2Pack Black(2 PCS)

57

\$12.90 \$
Ad feedback

Customers Viewing This Page May Be Interested In These Sponsored Links (What's this?)

- 1. Motorola MVME-MVME Repair 🗗
- 2. Mātes Plates no M79 Jaunāko Modeļu Piedāvājums 🗗
- 3. Industrial ATX motherboard 🗗
- Sales, Service & Repair of MVME All at your fingertips
- Vēlies salikt jaunu datoru pats vai vecā nodegusi? Izvēlies jaunu pie M79!
- ADLINK-Fully configured, tested for industrial control

www.alimartech.com/

Ĺ

www.m79.lv/mātesplates

www.adlinktech.com/

Ad feedback

Compare to Similar Items

	This item Parallella 18-core Motherboard	ZOTAC Atom Dual-Core D510/Intel NM10/WiFi/A&V&GbE/Mini DTX Motherboard Mini ITX Motherboard s NM10-B-E (NM10-DTX WIFI)	ASUS Mini ITX DDR3 1600 Motherboards AM1I-A	ZOTAC Turion II Neo K625 AMD M880G SATA3&USB3.0 WiFi A&V&GbE Mini ITX Motherboard - M880GITX-A-E
Customer Rating	(24)	(16)	(35)	(7)
Price	\$149.00	\$49.99	\$50.72	\$49.99
Shipping	FREE Shipping	\$9.81	FREE Shipping	\$9.96
Sold By	Adapteva	SabrePC	D-Circle (For Christmas gift, we recommend Expedited shipping. Please check the delivery date before ordering.)	SabrePC
Chipset Type	Information not provided	intel_nm10_express	Information not provided	AMD M880G
Processor Socket	Information not provided	Intel Atom D510	NA	LGA 1156
Device Type	Information not provided	Motherboards	Motherboards	Motherboards
Item Dimensions	2.12 x 3.5 x 0.62 in	8 x 2.8 x 8 in	6.69 x 6.69 x 0.39 in	8.25 x 8.25 x 3 in
Item Weight	1.4 ounces	2 lbs	1.4 lbs	2.2 lbs
Memory Slots Available	Information not provided	2	2	2
RAM Memory Technology	SDRAM DDR3	DDR2 667;DDR2 800	DDR3 1600	DDR3-SDRAM
Supported Motherboard	Information not provided	Information not provided	Mini ITX	Information not provided
Total Pci Slots Free	Information not provided	Information not provided	0	2
Total SATA Ports	Information not provided	6	2	6

Product Description

The Parallella (P1601) is a a great computer for anyone interested in high performance parallel computing and/or advanced hobby projects. The open source compunity supported platform is ideal for developers in industry, academia, or for personal use. The P1601 is a fully

Add to Cart

Add to Cart

Add to Cart

Add to Cart

тне орен эоитсе, сопиналису зиррогсей ріастотні із ійсагтог йеметорета пітнійизи у, асайенна, от тог регзонагизе, тне і тоот із а типу enabled programmable computer that includes a 16c-core Epiphany RISC parallel processor, Xilinx Zynq 7Z010 FPGA SOC and has Ethernet, USB, HDMI, Serial peripheral interfaces as well as multiple GPIO ports. The P1601 can be used for programming scalable parallel applications, as part of a cluster of Parallella boards, for embedded applications and much more.

Collapse all

In the Box:

- * P1601 Motherboard
- * Heatsink
- * Heatsink tape
- * 5VDC 2A Wall Adapter

Product Information

Technical Details

Gummary	
Processor	667 MHz
RAM	1 GB SDRAM DDR3
Number of USB 2.0 Ports	1

_	ther Technical Details	
	Brand Name	Parallella
	Series	P1601
	Item model number	P1601-DK03
	Hardware Platform	Linux
	Operating System	Linux
	Item Weight	1.4 ounces
	Product Dimensions	3.5 x 2.1 x 0.6 inches
	Item Dimensions L x W x H	3.5 x 2.13 x 0.63 inches
	Color	Blue
	Color Processor Brand	Blue Adapteva
	Processor Brand	Adapteva
	Processor Brand Processor Count	Adapteva 18
	Processor Brand Processor Count Computer Memory Type	Adapteva 18 DDR3 SDRAM
	Processor Brand Processor Count Computer Memory Type Audio-out Ports (#)	Adapteva 18 DDR3 SDRAM 1

Additional Information

ASIN	B0091UD6TM
Customer Reviews	24 customer reviews 3.9 out of 5 stars
Best Sellers Rank	#225 in Computers & Accessories > Computer Components > Motherboards
Shipping Weight	10.4 ounces (View shipping rates and policies)
Date First Available	July 2, 2014

Warranty & Support

Amazon.com Return Policy: You may return any new computer purchased from Amazon.com that is "dead on arrival," arrives in damaged condition, or is still in unopened boxes, for a full refund within 30 days of purchase. Amazon.com reserves the right to test "dead on arrival" returns and impose a customer fee equal to 15 percent of the product sales price if the customer misrepresents the condition of the product. Any returned computer that is damaged through customer misuse, is missing parts, or is in unsellable condition due to customer tampering will result in the customer being charged a higher restocking fee based on the condition of the product. Amazon.com will not accept returns of any desktop or notebook computer more than 30 days after you receive the shipment. New, used, and refurbished products purchased from Marketplace vendors are subject to the returns policy of the individual vendor.

Product Warranty: For warranty information about this product, please click here

Feedback

Would you like to update product info or give feedback on images? Would you like to tell us about a lower price?

Related Video Shorts









How to Install a Computer Motherboard



Switches into

Important Information

motherboard

Seller Warranty Description

A Customer may only return products to ADAPTEVA, and receive a credit or refund on the following conditions: i. Adapteva will only accept returns for faulty products or for products that do not meet the specifications within 30 days from the date of delivery; ii. Damaged or misused products will not be replaced or repaired; iii. The Customer must contact ADAPTEVA prior to the return of any products and obtain the prior consent of ADAPTEVA by submitting the RMA Application Form and obtain a returns number (RMA #) that must be quoted on all returned paperwork; iv. Return must be made within 30 days of the date of delivery (as stated on the delivery documentation). Products must be returned to ADAPTEVA in their original condition and packaging.

Sponsored Products Related To This Item (What's this?)













Belinda Mini Displayport (Mini Dp) to Hdmi Male Cable for Apple Macbook, Macbook Pro,...

\$8.98



Mini DisplayPort to HDMI Cable (15FT), Fosmon Mini DP [4K | Thunderbolt Port Compatible] to...

\$15.99

Nippon Labs MINIDP-HDMI-10 10-Feet Mini Display Port Male to HDMI Male 32 AWG... \$14.99







29

\$18.99



Cablelera DisplayPort to				
HDMI Cable (ZC2520MM-				
03)				
6				

\$8.79

Ad feedback

C

S

Customer Questions & Answers

See questions and answers

Customer Reviews

3.9 out of 5 stars



Share your thoughts with other customers

Write a customer review

See all verified purchase reviews

Top Customer Reviews

Great for hard core developers

By Faramarz Rabii on January 4, 2015

This is a device that makes it possible to play with multi-computing on a budget. I used to work on large "Massively Parallel Processing" projects including OSF1/AD. The equipment we used were unique and cost mega-bucks at the time. No normal human could afford them and it was only because of my job that I got access to them. This allows anyone to work on a platform starting with 16 processors. I have not done a whole lot beyond booting and setting it up yet but it looks good so far. Therefore I will give it a high rating even though it could use a few improvements especially improved documentation.

Nevertheless it is a great start and I wish Adapteva the best. My suggestion is that if you are buying one of these then also get:

- 1) Be a developer who is comfortable with hardware and software and have a regular Linux box around. Ubuntu is nice but any Linux would do.
- 2) Have at least one micro-sd card of 16 or better 32 gig size along with reader/writer. It must be *micro* not regular SD!
- 3) Have a powered USB hub
- 4) Have a micro-usb to USB adaptor
- 5) Have a micro-hdmi to regular hdmi adaptor and a monitor able to display it.
- 6) Have a serial RS232 to USB cable for debugging. Hopefully you won't need it but it is cheap and might as well have it.

Customer Images

Most Recent Customer Reviews

I have 3 Parallella's running in 3 different configurations and ...

I have 3 Parallella's running in 3 different configurations and although I'm doing mostly Cortex-A9 and FPGA development, I've used those boards extensively and never had a single... Read more Published 3 days ago by patc

Your own personal parallel computing laboratory

An amazing little board based around a 2-cores ARM CPU with 1GB or RAM, running Linux. So far it's similar to a Raspberry Pi. Read more Published 4 days ago by Marc Dumais

A super-computer for everyone

Amazing board, easy to use. The fact that you can have 16 + 2 cores for about \$100 is unbelievable. I have experimented with it and it's ideal for those who want to get involved... Read more

Published 9 days ago by Amazon Customer

This board is amazing! Be for the FPGA on Board (ZYNQ) or ...

This board is amazing! Be for the FPGA on Board (ZYNQ) or for the Epiphany Processor, this board really rocks in performance. Read more

Published 10 days ago by Lucas Teske

Great machine, great value and

still get the fan to be safe.

If you get in trouble they got a great forum that will help you fix the problems but you have to be willing to work at it. This is not some out of the box product. You need to be willing to roll up your sleeves and dig in there. I spent 3 days before it booted properly for me. The people on their forum are very nice (I am there :-) and will help you get it working so have no fear.

42 people found this helpful. Was this review helpful to you? Yes No Comment Report abuse

This thing Rocks!!!

By James Scott Jr. on August 6, 2015

This thing rocks!!! WooHoo

Very easy to use as a regular linux platform. It really shines when you engage the Epiphany III 16core chip to do image edge detection, or face recognition, or other advanced computational intense algorithms. SuperComputing for the masses (or just me!).

Note: I own two Parallels and six Raspberry Pi s.



26 people found this helpful. Was this review helpful to you? 1 Comment abuse

Great device for the dedicated experimenter or computer systems student.

By Len on June 2, 2015

I got my Parallella-16 on the Kickstarter campaign. It has several interesting features beside the 16 core parallel processor. There is also FPGA built into the Zynq CPU (which is dual ARM core). I believe complete systems can be put together with no additional glue logic. It has built in A/D converters and all sorts of programmable hardware logic that can be set up on initialization then run at hardware speeds. There has been some delay getting the development environment stable, mainly because in parallel with the development, Xilinx was changing the tool set. It is really a nice versatile platform for the experimenter. It is not something for a casual hobbyist, but great for the motivated. You could get lost in this thing for quite some time and not run out of projects. I would give it five stars except for the development environment, which is getting there.

Comment abuse

18 people found this helpful. Was this review helpful to you? Yes No Report



Adapteva brought their 18xA game to the table with the Parallala.

By laroux on June 25, 2015

Verified Purchase

This is truly a great development system but not for the casual user. I purchased one for science and development and have to say the unit performs as advertised. As others have said you should have Linux experience, good understanding of developing and writing code primarily C and C++. With those under your belt you can learn the parallel aspects and taking advantage of this incredible system. Having 6 core desktop, 4x4 core server running windows, a handful of Raspi's, Arduinos and drawers of Microchip Pic chips around this board just brings it for raw compute power in the tiny size and low power envelop.

7 people found this helpful. Was this review helpful to you? Yes No Report Comment abuse

kickstarter user

By Guillermo on July 23, 2014

I got this board from the kickstarter campaign.

It is certainly a prototype board. A fan is needed to maintain the zynq chip cooled down. Looking forward to use the next adapteva chips with 64 cores and in a few years, 1024 cores :D ... this is ok as a prototype

17 people found this helpful. Was this review helpful to you? Yes No Report 4 Comments abuse

... kickstarter and I've had trouble coming up with a good project to use it for

By Amazon Customer on July 23, 2014

I got this board off of kickstarter and I've had trouble coming up with a good project to use it for, but for 150 dollars and 18 cores its pretty impressive.

16 people found this helpful. Was this review helpful to you? No 1 Comment Report abuse

good for learning about parallelism

I have a Parallella and think its great, getting 18 cores (16 Epiphany and 2 ARM A9) for this price is great value and makes it really accessible to play with parallelism. Read more

Published 10 days ago by Nick Brown

Dead after 6 months

I used it a couple times last fall to see how it worked. It worked then and unplugged it until i had more time to develop a computing network. Read more Published 7 months ago by Ben

Nice board, beware of usb problems

I bought this board to play around with parallel computing, it seemed like an easy way to get started. Read more

Published 10 months ago by Ray M.

Fun little board to play with.

Easy to get up and running. Worked great for small test projects. Tools are easy to use if your familiar with C, I'm using CMake GCC and works great, some fiddling, but really all... Read more

Published 10 months ago by Dominic Byrne

Shipped a Broken Product, Refund

Refused...

Horrible customer service and a general non-response to hardware problems mar what should otherwise have been a fun dev experiment board. Read more Published 12 months ago by B. Tyler Burton

Doesnt perform very well - limited support - this was ...

Doesnt perform very well - limited support - this was designed for robotic vision applications as part of their video - however - it just doesn't cut it. Read more Published 14 months ago by Daniel Rodriguez



Much Joy

By NameGameLoL on March 14, 2015

Verified Purchase

I absolutely Love this device so far. ARMF developer grade fun. Using my Parallella right now. Have Headless ubuntu installed on it. (for the time being.) Have patched it into my network and am Experimenting constantly with it.

7 people found this helpful. Was this review helpful to you? Yes No Report Comment abuse

Fantasstic parallel computing research platform!

By Philip Moyer on March 16, 2016

Verified Purchase

I purchased four of these, along with a cooled enclosure, to act as my new desktop and research machine. It takes a bit of work and some good UNIX skills to get it set up and working correctly, but it is well worth the effort. These devices are excellent distributed/parallel computing research platforms. You can write parallelized algorithms in C or Python (easily). I've no experience with their support for other languages. Note that the forums on parallella dot org are extremely helpful, though quite technical.

One other important thing to note is that even though they say you can run the board with just the heat sink, my monitoring of the chip temperatures showed the board quicky overheats, even when mounted vertically, as recommended. This computer requires, IMO, a case with a fan. Certainly, a fan is required if you want to enclose the boards or run more than one in a cluster.

I am extremely happy with these computers, and I do recommend them. They really aren't for beginners, though. I would suggest you only buy these if you have excellent UNIX and system administration skills.

6 people found this helpful. Was this review helpful to you? Yes No Report Comment abuse



See all verified purchase reviews (newest first)

Write a customer review

Customers Who Viewed This Item Also Viewed



Parallella 18-core Microserver

\$99.00

Parallella Aluminum Case \$29.50



Parallella Breakout Board ("Porcupine") \$45.00



NVIDIA Jetson TK1 Development Kit

\$192.99



NVIDIA Jetson TX1 Development Kit

\$579.00



Intel GALILEO Single ATX DDR2 1066 Microcontroller Motherboard GALILEO1.Y

8

Back to top

Get to Know Us

Careers About Amazon Make Money with Us

Sell on Amazon

Sell Your Services on Amazon

Amazon Payment Products

Amazon.com Rewards Visa Card Amazon.com Store Card

Let Us Help You

Your Account Your Orders

Amazon.com: Parallella 18-core Motherboard: Computers & Accessories

Investor Relations Amazon Devices

Sell on Amazon Business Sell Your Apps on Amazon

Become an Affiliate

Advertise Your Products Self-Publish with Us

Become an Amazon Vendor

> See all

Amazon.com Corporate Credit Line

Shop with Points

Credit Card Marketplace Reload Your Balance

Amazon Currency Converter

Shipping Rates & Policies

Amazon Prime

Returns & Replacements Manage Your Content and Devices

Amazon Assistant

Help

Australia Brazil Canada China France Germany India Italy Japan Mexico Netherlands Spain United Kingdom

6pm Score deals on fashion brands

Home Services Handpicked Pros Happiness Guarantee

Book Depository Books With Free Delivery Worldwide

Fabric Sewing, Quilting & Knitting

Shopbop Designer Fashion Brands

AbeBooks Rare Books & Textbooks

Amazon Inspire Free Digital Educational Resources

Casa.com Kitchen, Storage & Everything Home Goodreads Book reviews & recommendations

Soap.com Health, Beauty & Home Essentials

Audiobook Publishing Made Easy

> Amazon Rapids Fun stories for kids on the go

ComiXology Thousands of Digital Comics IMDb Movies, TV & Celebrities

TenMarks.com Math Activities for Kids & Schools

Yoyo.com A Happy Place To Shop For Toys

Actionable Analytics for the Web

Amazon Video Direct Video Distribution Made Easy

CreateSpace Indie Print Publishing Made Easy

Junglee.com Shop Online in India Wag.com Everything For Your Pet

Zappos Shoes & Clothing Amazon Business Everything For Your Business

Amazon Web Services Scalable Cloud Computing Services

Diapers.com Everything But The Baby

Kindle Direct Publishing Indie Digital Publishing Made Easy

Warehouse Deals Open-Box Discounts

AmazonFresh Groceries & More Right To Your Door

Audible Download Audio Books

DPReview Digital Photography

Prime Now FREE 2-Hour Delivery on Everyday Items

Whispercast Discover & Distribute Digital Content

AmazonGlobal Ship Orders Internationally

BeautyBar.com Prestige Beauty Delivered

East Dane Designer Men's Fashion

Prime Photos Unlimited Photo Storage Free With Prime

Woot! Deals and Shenanigans

Conditions of Use Privacy Notice Interest-Based Ads © 1996-2016, Amazon.com, Inc. or its affiliates