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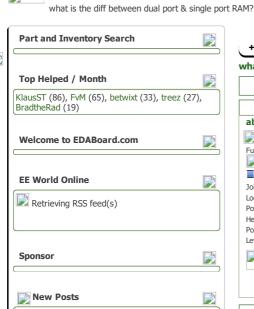
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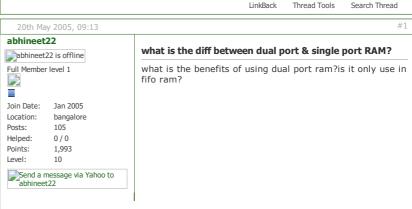
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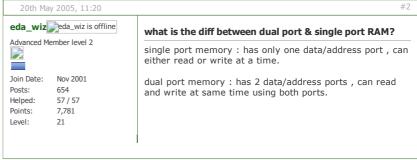


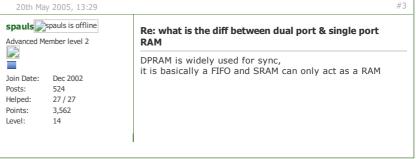
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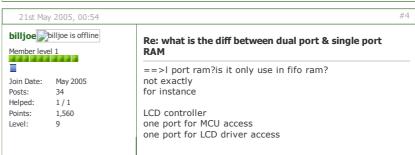
what is the diff between dual port & single port RAM?



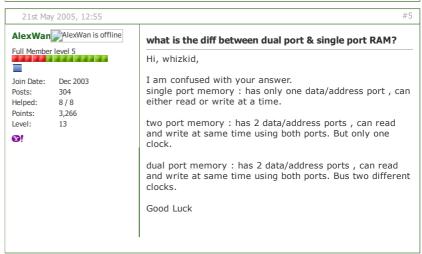


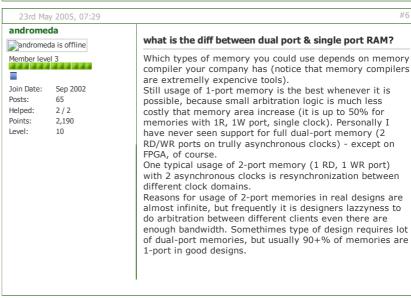


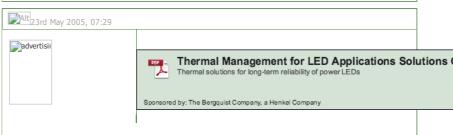


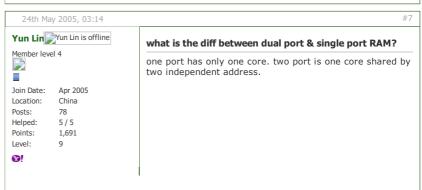


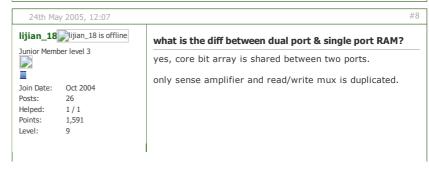


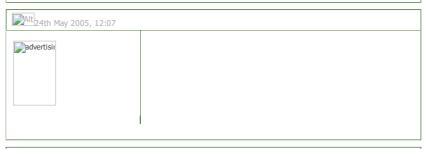












24th May 2005, 14:53 tutx tutx is offline what is the diff between dual port & single port RAM? Full Member level 2 It should be consider to dual port and two port. It is not the same. Their different is one clock or two clocks are used. Join Date: Mar 2004 Posts: 121 Helped: 17 / 17 Points: 2,269 Level: 11

25th May 2005, 12:21 gaonkc gaonkc is offline what is the diff between dual port & single port RAM? Full Member level 1 two port , read/write can be operate at the same time, one port, read /wrtie operation respestively. Join Date: Jul 2004 Posts: 104 Helped: 2/2 1,835 Points: Level: 9

25th May 2005, 13:26 **blueant** blueant is offline what is the diff between dual port & single port RAM? Member level 1 In our memory compiler I find one port , tow port, and dual port . I dont know what means. Join Date: Jul 2004 Posts: 34 0/0 Helped: Points: 1,657 Level: 9

#12 26th May 2005, 12:28 haosg haosg is offline what is the diff between dual port & single port RAM? Full Member level 1 the fifo generally use two ports register-file. it have seperatly write and read ports. the single ports have a shared R/W ports, Join Date: Nov 2004 the dual ports have two R/W ports, Posts: 103 each can read/writed. Helped: 2/2 Points: 1.876 Level: 10

#13 26th May 2005, 12:55 nemolee nemolee is offline Re: what is the diff between dual port & single port Full Member level 3 **RAM** If you want to implement FIFO by SRAM. You can use two-port SRAM and dual-port SRAM. But I prefer to use two-Join Date: Dec 2004 port SRAM, because the RAM size is smaller than dual-port 154 Posts: Helped: 2/2 Points: 3.030 Level: 12

zhangpengyu

zhangpengyu is offline
Full Member level 3

#14

what is the diff between dual port & single port RAM?

### what is the diff between dual port & single port RAM?

Join Date: Jun 2004 Posts: 172 Helped: 3/3 Points: 2.197 Level: 10

With dual ram, you have dual bandwidth, so the performance is rised.

7th June 2005, 15:38

#15

#### Kulprashant



Join Date: Mar 2005 Posts: 59 3/3 Helped: Points: 1,629 Level: 9

## what is the diff between dual port & single port RAM?

dual port is having two clks. while single port ram having sinale clk.

with regards, kul.

8th June 2005, 07:27

#16

#### Prasanna Kumar

## Prasanna Kumar is offline Member level 3

Dec 2004 loin Date: Posts: 58 3/3 Helped: Points: 2,394 Level:

#### Re: what is the diff between dual port & single port **RAM**

DPRAM has an advantage that it can simultaneously read and write on a single clock, and latency is less for a high bandwidth designs. But to the hardware point of view it generates more number of flip flops,





10th June 2005, 10:20

# jjww110 jjww110 is offline Full Member level 5

Join Date: Apr 2005 Location: china Posts: 258 8/8 Helped: Points: 2.750

## what is the diff between dual port & single port RAM?

single port memory : has only one data/address port , can either read or write at a time.

two port memory : has 2 data/address ports , can read and write at same time using both ports. But only one clock.

dual port memory : has 2 data/address ports , can read and write at same time using both ports. But two different clocks.

10th June 2005, 13:40

12

#18

### power-twq

Level:



Join Date: Jun 2005 Posts: 373 Helped: 8/8 Points: 2.793 Level: 12

#### Re: what is the diff between dual port & single port RAM

single port ram: ram array can be accessed by one address port;

two port ram: ram array can be accessed by two address port;

Quote Originally Posted by abhineet22

what is the benefits of using dual port ram?is it only

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