

Re: Multiple USB 1.1 devices in USB 2 Hub speed ?

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- *From:* Anton Erasmus <nobody@xxxxxxxxxxxxxxxxxxxx>
  - *Date:* Thu, 17 Jul 2008 21:54:15 +0200
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On Wed, 16 Jul 2008 16:55:14 -0700 (PDT), Adrian  
<adrianbica@xxxxxxxx> wrote:

On Jul 16, 5:41 pm, Anton Erasmus <nob...@xxxxxxxxxxxxxxxxxxxx> wrote:

Thanks, this what I needed to know. So if I need to combine 6 full speed devices into one High speed channel, I would need something with 6 1.1 host ports and one 2.0 device port.

Basically, yes, but you need 2 host controllers to take care of those this devices, one would not be enough, because of the high bandwidth ( 6 x 3Mbps). This should be two independent controllers, not a controller with 2 ports, those just have an internal (root) hub. And be sure the 2.0 device controller is a real 2.0, many controllers pretend they are 2.0 but limited to full speed.

available that does this kind of thing? I have six USB 1.1 devices (FTDI chips in FIFO mode) each needing to send data at 3 Mbps to a host PC. The PC has 6 USB ports, but I need to take these through a sealed bulkhead, and the connectors I can get is to big to fit 6 of them. So I either need to get smaller IP-67 sealed USB connectors, or a way to combine the data into a single channel. I might be able to fit 2 USB connectors in which case the Full Speed limit per channel should be OK.

The PC also should have more than one internal USB host controllers, if it is just a hub, it won't do the job.

Thanks, I did not think of this. Is an internal USB hub the norm for PCs, or is it normally more than one host controller ?

Regards  
Anton Erasmus

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