

Fedora BOM

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1 BOM

Item	Description	Seller	Price	Qty	Total
1	Pi4 4Gb	Pi Shop	55.00	1	55.00
2	Pi4 4Gb	Cana Kit	55.00	1	55.00
3	Pi4 4Gb	CED	55.00	1	55.00
4	Power Supply	Pi Shop	8.00	3	24.00
5	Ethernet Switch	Amazon	13.50	1	13.50
				Total:	202.50

2 Justifications

2.1 Raspberry Pi4

The Raspberry pi offers a quick and painless method of testing the software on an ARM processor. This is necessary as the main processor for Katalyst Space Technologies is an ARM and in order to create a representative test, I would like to use the same processor family. That being stated the Pi2 v1.1 would be ideal due to the specific core type they use (Arm A7) is very similar to the A9 likely to be used by Katalyst, however due to the global chip shortage I could not locate any by a reputable supplier. The only Pi I could find by reputable suppliers were the Pi4b, which are still ARM A line so the test will be representative just not as close as initially planned.

A raspberry Pi also supports lower level IO such as UART that I can use to demonstrate that this works over UART as well as ethernet.

A note too that the three sellers are used as all of these sellers have a 1 pi per customer restriction and 3 is the minimum I need to ensure my software works.

2.2 Ethernet switch

I need a small ethernet switch in order to test these messages sent over ethernet. I have enough annoyingly short ethernet cables in my room that I am MORE THAN HAPPY to donate to my project.