

## TOF Comments on VTRX+, 27-Nov-2023 (Tonko Ljubicic/BNL)

<b>Pros</b>	Radiation Hard (which we don't care)
	Lower Material (my guess: 2-3x) – we do care
	Lower Power (2x) – we mildly care
	Smaller (2-3x) – we care, especially the lower height
<b>Cons</b>	Need to order NOW (2024). Need to know FINAL quantity (which we don't)!
	Needs an inconvenient (IMHO) pigtail <u>and</u> we need to know the length of it NOW, at the time of order (which we don't)
	Low downlink rate (2.5 Gbs) ⇒ only 16 bits of payload per EIC 98.5 MHz tick <i>or</i> have a mixed rate system coming from e.g. the Global Timing Unit (ugly)
	Expensive (~5x more than SFP+)
	Not a commercial product, sold as-is, in good faith :-)
	Fragile (comment from Irakli)
	TOF doesn't think it can have a strong case for e.g. a CD3b to be able to defend the purchase of VTRX+ at this time.

NOTE: Possible similar options to VTRX+ ⇒  
SAMTEC Firefly

NOTE: TOF needs  
from 500 to 2000 fiber links.  
The final number is still not known.

**TOF Standpoint:**  
Although we would benefit from VTRX+ we won't know the final required quantity soon.  
We will continue prototyping with SFP+ as Option A but we will investigate Firefly as a possibility.