

Bill of materials for Gen1b laser (785nm from Thorlabs, off the shelf):

1. Seed laser - FPV785P – 1 piece
2. Seed driver- CLD1015 - 1 piece
3. Tapered amplifier- TPA780P20 - 1 piece
4. Tapered amplifier driver- ITC4020 - 1 piece
5. Tapered amplifier driver cables- CAB4000, CAB4005- 1 piece each
6. Fiber isolator between the seed and tapered amplifier – IO-J-780APC(TP02357498) – 1 or 2 stages (TBD)
7. Tapered amplifier butterfly mount – LM14S2 - 1 piece
8. Fiber splitter – TBD - 1 piece
9. Fiber connector – ADAFCPMB2- a few pieces (TBD)
10. Free space isolator after the tapered amplifier - IO-5-Tis2-HP- 1 piece
11. Beam coupler to the fiber – PAF2S-7B - 1 piece
12. Source fiber – M107L02 - 1 piece
13. Optical breadboard – (TBD based on the dimensions) - 1 piece
14. Posts and mounts for items 6, 10, 11 – several (TBD)
15. detectors and safety module