

USAGE GUIDE (PLEASE READ)

These are general hints to use this PCB file. They are aimed specially at the general and to whoever wishes to use this project.

- (I) If you want to check or reroute a specific trace, it is recommended that Turn it on at View > Contrast mode > Check "High Contrast Mode". The ico icon column.
- (II) It is recommended that the user has some knowledge in Git usage, sinc for the Acheron Project.
- (III) All footprints are available either through KiCad's native libraries or th (http://github.com/Gondolindrim/AcheronLibrary). To facilitate the portabili library is generally added at the \${KIPRJMOD} folder as a Git submodule. HPCB repository, run:
- \$ git submodule init ——update

To update the submodules.

(IV) For detailed information, check the Acheron Docs page for the ArcticPC http://gondolindrim.github.io/AcheronDocs/ruler/intro.html

MINIMUM VALUES

TRACE WIDTH: 6 thou (approx. 0.15 mm)

MINIMUM CLEARANCE: 6 thou

VIA HOLE SIZE: 12 thou (approx. 0.3mm)

VIA DIAMETER: 20 thou (approx. 0.5mm)

VIA-TO-VIA AND VIA-TO-TRACE CLEARANCE: 6 thou

SILKSCREEN CHARACTER HEIGHT: 25 thou (see General Observation (v))

SILKSCREEN CHARACTER TRACE WIDTH: 6 thou

TRACE-TO-EDGE AND VIA-TO-EDGE DISTANCE: 8 thou

RECOMMENDED VALUES

These values were the default values used when possible

TRACE WIDTH: 10 thou

MINIMUM CLEARANCE: 8 thou

VIA HOLE SIZE: 16 thou (approx. 0.4mm)

VIA DIAMETER: 32 thou (approx. 0.8mm)

VIA-TO-VIA AND VIA-TO-TRACE CLEARANCE: 8 thou

SILKSCREEN CHARACTER HEIGHT: 32 thou

SILKSCREEN CHARACTER TRACE WIDTH: 8 thou

TRACE-TO-EDGE AND VIA-TO-EDGE DISTANCE: 8 thou

GENERAL OBSERVATIONS

- (i) The grid unit (1U) value used was 3/4" = 19.05mm
- (ii) The PCB was designed to fit the standards of the PCBWay manufacture Be aware that capabilities may vary among manufacturers, so be sure to othey support the minimum values used.
- (iii) All parts were quoted on the LCSC supplier (https://lcsc.com). Also be sure to check with your parts supplier if they have all the necessa and change parts and footprints accordingly to availability
- (iv) You can always contact Gondolindrim through:
- ArcticPCB's GitHub page: http://github.com/Gondolindrim/AcheronRule
- E—mail: alvaro.augusto.volpato@gmail.com
- Discord: Gondolindrim#9738
- Reddit: /u/gondolindrim
- (v) Most manufacturers list minimum character height as 0.8mm, and was below that will be undiscernable or unreadable. I have found that values be used, although at that level a really close look is needed. Indeed, the which characters are easily readable is 0.8mm