

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
- (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 necessal 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