TB273 (Rev3) - Centroid CNC PC Minimum Hardware and Benchmark Requirements

Purpose:
To provide the minimum hardware and benchmark requirements for a Centroid CNC PC proper CNC control operation.

Requirements:
1.) The processor, CPU, that is installed on the motherboard must have a <u>minimum</u> benchmark of 1250. One can look up a CPUs benchmark # using the following website http://www.cpubenchmark.net/singleThread.html.

> Notice that this is the "Single Thread" benchmarks chart. Using a CPU with a single thread benchmark rating higher than 1250 is required.

2.) A solid state drive, SSD.

3.) 4GB of RAM.

4.) Windows 7, 8, or 10.

5.) 2nd Ethernet port. Can be a PCI slot add-on card. See link below.

6.) A **shielded** CAT5E Ethernet cable.

The following components are highly suggested as they have been rigorously tested by Centroid.

1.) Gigabyte or Asus motherboard with solid capacitors for reliability.

2.) Antec or Cooler Master power supply with a minimum power rating of 450W.

3.) Samsung or Intel SSD.

4.) Clean Windows 7, 8, or 10 installed (starting with a formatted hard drive) with NO bloatware, skype, virus protection, firewalls etc. Just Windows and CNC11.

As a reference below are the components that Centroid uses on their current M400 consoles and M39 CNC PCs as of 8-15-2016:

Motherboard
http://www.newegg.com/Product/Product.aspx?Item=N82E16813128662&cm_re=h81m-hd3-_-13-128-662-_-Product

Intel CPU
http://www.newegg.com/Product/Product.aspx?Item=9SIA1N83U90757&cm_re=intel_g1840-_-19-117-301-_-Product

SSD
http://www.newegg.com/Product/Product.aspx?Item=9SIA12K2EV4048&cm_re=samsung_850_evo_120gb-_-20-147-371-_-Product

RAM
http://www.newegg.com/Product/ProductList.aspx?Submit=ENE&DEPA=0&Order=BESTMATCH&Description=ballistix+4gb+udimm+ddr3&N=600006067&isNodeId=1

Power Supply
http://www.newegg.com/Product/Product.aspx?Item=N82E16817171031

Network Card
http://www.newegg.com/Product/Product.aspx?Item=N82E16833114005&Tpk=startech%20st100s

Windows 10
http://www.newegg.com/Product/Product.aspx?Item=N82E16832416892&cm_re=windows_10-_-32-416-892-_-Product

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