

## Comparisons between The JMK Thin Client WS02 And Most Personal Computers

### Definitions:

**Personal Computer (PC)** Standard Office multimedia PC running a standard (retail) version of the Windows operating system

**JMK Thin Client (TC)** Special Usage system with no disk drives, permanently installed software and a special version of Windows called Windows Embedded Standard.



<b><u>Hardware Features</u></b>	<b><u>PC</u></b>	<b><u>TC</u></b>
Multimedia Capable	Yes	No
Uses Hard Disk Drive	Yes	No
Boots in approximately 60 seconds	No	Yes
Very few moving parts	No	Yes
Requires almost no maintenance	No	Yes
Small case size for fit-almost-anywhere placement	No	Yes
Minimal Power consumption <sup>1</sup>	No	Yes
Limited built in port selection <sup>2</sup>	No	Yes

1. Typical PC power consumption is 150 to 350 watts per hour  
Typical TC power consumption is 6 to 20 watts per hour
2. Most PC's can be modified by adding cards for additional ports and/or functionality, for instance adding a video card for digital video displays.  
The JMK thin client cannot be modified. The JMK thin client does not have a parallel port and does not have a digital video port, contact JMK for details.

<b>Software Feature</b>	<b>PC</b>	<b>TC</b>
Web Browser	Yes	Yes <sup>3</sup>
Office Applications**	Yes	No <sup>4</sup>
Availability of Anti Virus software	Yes	No
Built in Firewall	Yes	Yes
Can run most installable software	Yes	No
Needs regular security updates to maintain stability	Yes	No

3 The JMK thin client is limited in the web browsers it can run due to the operating system software, the JMK thin client comes with Internet Explorer version 7.

4 The JMK thin clients can run hosted applications only, where a server is running the software and the JMK thin client displays the screens.

\*\* Office applications are software programs for business use, they are available as installable stand-alone applications/packages, or as a service (run on either a host or server computer), a PC is capable of running either type.

<b>Software Differences</b>	<b>PC</b>	<b>TC1</b>	<b>TC2</b>	<b>TC3</b>
Vulnerable to Attacks by Virus/Trojan	Yes	Yes	Limited	No
Able to add software to system	Yes	Yes <sup>5</sup>	Limited <sup>5</sup>	No
Able to save setting and/or customize system	Yes	Yes	Limited	No

5. Adding software permanently to a thin client requires special techniques.

### **Definitions:**

- TC1** Administrator Mode      Logging into the unit as the administrative user, having full privileges to add software or make changes
- TC2** User Mode with write filter **disabled**      Using the default, automatic login having no privileges to make changes and limited ability add software and/or save files.
- TC3** User Mode with write filter **enabled**      Using the default, automatic login having no privileges to make changes. Any added software and/or save files will be to volatile memory and will disappear when the unit is reset.