

Application Note: Operating System Compatibility for the TKL8255

Date: September 20, 2016

Trenton Systems validates a variety of operating systems for use on our Single Board Computers in order to ensure trouble-free operation in the widest array of deployment scenarios possible. This document serves to illustrate TKL8255-compatible operating systems. **The TKL8255 does not support legacy 32-bit operating systems.**

The operating systems listed in **Green** below are recommended for use with the TKL8255.

Operating System	Recommended	Clarification
Microsoft Windows		
Windows 2016 Server	Yes	See Notes 4 and 5
Windows 2012 Server	Yes	See Note 3
Windows 2008 Server	No	See Notes 1, 2, 3
Windows 10	Yes	See Notes 3, 4 and 5
Windows 8/8.1	Yes	See Note 3
Windows 7/7.1	No	See Notes 1 and 2
Linux		
Red Hat RHEL 7.2	Yes	See Notes 6 and 7
CentOS 7.x	Yes	
SUSE 42.1	Yes	
Ubuntu 6.04.1	Yes	

NOTES:

- Windows 7 and Windows 2008 do not natively support xHCI USB devices until the drivers are installed. Installation of these operating systems requires use of additional equipment. Contact Trenton Systems for more information.
- Windows 7 and Windows 2008, audio output is not functional on the TKL8255.
- Error in Event viewer. “WUDFRD” Windows Update Service needs to be set to “Automatic” instead of “Manual.”
- Error in Event viewer. SyncHostService. This is a known Microsoft issue and will not cause a problem. Error occurs during shutdown on first attempt to close services.
- Error in Event viewer. “Application specific permission settings do not grant local activation permissions. Distributed Com.” Error results from permission settings. Needs to be configured by System Administrator.
- i219 Ethernet Adapter not recognized until “yum update.”
- Dual displays not supported until RHEL 7.3 or later.

Windows Wake-On LAN Compatibility

The standard state that occurs when a system is “shutdown” from within Windows 8.1 or later is a, “hybrid shutdown state S4” which does not support Wake-On LAN (WOL) by default. WOL can be enabled on the TKL8255 running these operating systems by disabling this S4 state. To enable WOL:

- In the Windows Control Panel, open the **Power Options**
- Click **Choose what the power buttons do**
- Clear the check box for **Turn on fast startup (recommended)**
- Click Save Settings
- Select the i219 Ethernet Controller in the Windows Device Manager (**Windows Key → “Device Manager” Enter → Double Click on the Controller**)
 - In the window that pops up, select the **Properties** tab.
 - Ensure **“Wake from Magic Packet in S5”** is selected under Power Management & apply changes
- Ensure WOL is enabled in the BIOS.

For additional information contact Trenton toll-free in the U.S. at 1-800-875-6031 or worldwide at +1-770-287-3100. Please visit our website at www.TrentonSystems.com or follow us on:

