

## Driver Installation Order & Summary Guide

This driver Installation Summary Guide provides detailed information for the following Viglen products. This guide provides information on Hardware ID and associated device driver required to successfully configure Microsoft® operating systems. Two sets of drivers are available:

**Full Driver Sets** – Contains full driver set for Automatic installation.

**INF Driver Package** – Contains drivers in extracted INF format for manual driver installation via Device Manager, or use with Microsoft® Deployment toolkit (MDT), Microsoft® System Centre Configuration Manager (SCCM) by importing the device drivers.

Driver DVD: <a href="#">WDXDCD75</a>	Motherboard: <a href="#">Viglen Vig670W Motherboard</a>
Revision: <b>1.1</b> Release Date: <b>14 August 2014</b>	Viglen Part code: PMPWB670

### Unknown / Other Devices in Device Manager (VIG660W):

Hardware Devices Listed in device Manager	Hardware ID	Associate d Driver	INF Drivers
<b>IDE ATA/ATPI Controllers</b>			
Standard AHCI 1.0 serial ATA Controller	VEN_8086&DEV_1C02	AHCI	Intel(R) Desktop/Workstation/Server Express Chipset SATA AHCI
<b>Other devices</b>			
Audio Device on High Definition Audio Bus	HDAUDIO\FUNC_01&VEN_10EC&DEV_0662	Audio	Realtek High Definition Audio
Ethernet Controller	PCI\VEN_10EC&DEV_8168	LAN driver	Realtek PCIe GBE Family Controller
Ethernet Controller	PCI\VEN_168C&DEV_0037&SUBSYS_11951A3B&REV_01	WLAN	Qualcomm Atheros AR1111 Wireless Network Adapter
PCI Simple Communication Controller	PCI\VEN_8086&DEV_1C3A&SUBSYS_011D1C6C&REV_04	AMT	Intel(R) Management Engine Interface
SM BUS Controller	VEN_8086&DEV_1C22	Chipset	Intel(R) 6 Series/C200 Series Chipset Family SMBus Controller - 1C22
Universal Serial BUS (USB) controller	VEN_1106&DEV_3432	USB3.0	VIA USB eXtensible Host Controller
Unknown Device	USB\VID_1106&PID_3432&REV_0003	USB3.0	VIA USB 3 Root Hub
Unknown Device	VUSB\VID_2109&PID_0811&REV_0200	USB3.0	VIA USB 2 Hub
Video Controller (VGA compatible)	PCI\VEN_8086&DEV_0152	VGA Driver	Intel(R) HD Graphics
Audio Device on High Definition Audio Bus	HDAUDIO\FUNC_01&VEN_8086	Audio	Intel(R) Display Audio
Unknown Device	USB\VID_0BDA&PID_0129&REV_3960	Card reader	Realtek USB 2.0 Card Reader

**Important:** When downloading drivers from Viglen FTP site, unzip them to a folder and make a note of the download path so that you can find them later.

**Note:** Not all driver updates require a restart. Even if you're not prompted, we always recommend restarting the system. The driver update process involves changes to the Windows registry and other important areas of your computer and restarting is a good way to confirm that updating drivers hasn't negatively impacted some other area of Windows.



PROPRIETARY

Windows 7 (32 & 64Bit)		Driver/Utility			
		Executable File		Silent Switch	Comments
Installation order		Windows 7 32 Bit	Windows 7 64 Bit		
1	Chipset:	INF_allOS_9.4.0.1027.exe	INF_allOS_9.4.0.1027.exe	setup -s	
2	Onboard Graphics	GFX_Win7_8_8.1_32_10.18.10.3496	GFX_Win7_8_8.1_64_10.18.10.3496		
3	Audio: Realtek* ALC Audio	AUD_Win8.1_Win8_Win7_6.0.1.7240	AUD_Win8.1_Win8_Win7_6.0.1.7240	setup -s	
4	LAN: Realtek	Realtek_LAN_V7854252014_Win7_V8314232014_Win8	Realtek_LAN_V7854252014_Win7_V8314232014_Win8	setup -s	
5	Intel(R) Management Engine	MEI_Win7-8-8.1_9.5.15.1730	MEI_Win7-8-8.1_9.5.15.1730	setup -s	
6	USB3.0	VIA-USB3.0_Win7_R4.20B	VIA-USB3.0_win7_R4.20B	setup -s	
7	AHCI/RAID: Intel® Matrix Storage Manager	STOR_Win7_8_12.5.0.1066.exe STOR_Win7_8_12.5.0.1066_f6flpy-x86	STOR_Win7_8_12.5.0.1066.exe STOR_Win7_8_12.5.0.1066_f6flpy-x64	setup -s	
8	Card Reader	RtsUVStor_6.2.9200.39052_XP-7-8-8-1	RtsUVStor_6.2.9200.39052_XP-7-8-8-1		
9	WLAN:	WLAN_Win7-10.0.0.234-whql	WLAN_Win7-10.0.0.234-whql		

\*\*\*Graphics Driver for External VGA card can be downloaded from Viglen FTP site: <http://www.viglen.co.uk/viglen/support/ftpgraphics.aspx>

**INF Driver Package details (Vig670W): Windows 7**

Driver Description	Hardware ID	Version	Date
Xeon(R) processor E3-1200 v2 3rd Gen Core processor DRAM Controller - 0150	PCI\VEN_8086&DEV_0150&SUBSYS_01011C6C&REV_09	9.3.0.1029	25/07/2013
Intel(R) Desktop Workstation Server Express Chipset SATA AHCI Controller	PCI\VEN_8086&DEV_1C02&SUBSYS_01191C6C&REV_05	12.8.0.1016	08/01/2013
Intel(R) 6 Series C200 Series Chipset Family PCI Express Root Port 1 - 1C10	PCI\VEN_8086&DEV_1C10&SUBSYS_010E1C6C&REV_B5	9.2.0.1035	25/07/2013
Intel(R) 6 Series C200 Series Chipset Family PCI Express Root Port 2 - 1C12	PCI\VEN_8086&DEV_1C12&SUBSYS_010F1C6C&REV_B5	9.2.0.1035	25/07/2013
Intel(R) 6 Series C200 Series Chipset Family PCI Express Root Port 3 - 1C14	PCI\VEN_8086&DEV_1C14&SUBSYS_01101C6C&REV_B5	9.2.0.1035	25/07/2013
Intel(R) 6 Series C200 Series Chipset Family PCI Express Root Port 4 - 1C16	PCI\VEN_8086&DEV_1C16&SUBSYS_00111C6C&REV_B5	9.2.0.1035	25/07/2013
Intel(R) 6 Series C200 Series Chipset Family SMBus Controller - 1C22	PCI\VEN_8086&DEV_1C22&SUBSYS_011A1C6C&REV_05	9.2.0.1035	25/07/2013
Intel(R) Display Audio	HDAUDIO\FUNC_01&VEN_8086&DEV_2805&SUBSYS_80860101&REV		
Intel(R) HD Graphics	PCI\VEN_8086&DEV_0152&SUBSYS_01021C6C&REV_09	10.18.10.3496	03/11/2014
Intel(R) Management Engine Interface	PCI\VEN_8086&DEV_1C3A&SUBSYS_011D1C6C&REV_04	9.5.15.17.30	07/02/2013
Qualcomm Atheros AR1111 Wireless Network Adapter	PCI\VEN_168C&DEV_0037&SUBSYS_11951A3B&REV_01	10.0.0.234	03/11/2013
Realtek High Definition Audio	HDAUDIO\FUNC_01&VEN_10EC&DEV_0662&SUBSYS_1C6C010E&REV	6.0.1.7240	05/06/2014
Realtek PCIe GBE Family Controller	PCI\VEN_10EC&DEV_8168&SUBSYS_01231C6C&REV_07	7.085.0423.2014	04/23/2014
VIA USB eXtensible Host Controller	PCI\VEN_1106&DEV_3432&SUBSYS_34321106&REV_03	6.1.7600.4201	12/08/2013
VIA USB 2 Hub	USB\VID_2109&PID_0811&REV_0200	6.1.7600.4201	12/08/2013
VIA USB 3 Root Hub	USB\VID_0811&PID_1106&REV_0200	6.1.7600.4201	12/08/2013
USB2.0-CRW	USB\VID_0BDA&PID_0129&REV_3960	6.2.9200.39052	08/08/2013

Windows 8 (32 & 64Bit)		Driver/Utility			
		Executable File		Silent Switch	Comments
		Windows 8 32 Bit	Windows 8 64 Bit		
Installation order					
1	Chipset:	INF_allOS_9.4.0.1027.exe	INF_allOS_9.4.0.1027.exe	setup -s	
2	Onboard Graphics	GFX_Win7_8_8.1_32_10.18.10.3496	GFX_Win7_8_8.1_64_10.18.10.3496		
3	Audio: Realtek* ALC Audio	AUD_Win8.1_Win8_Win7_6.0.1.7240	AUD_Win8.1_Win8_Win7_6.0.1.7240	setup -s	
4	LAN: Realtek	Realtek_LAN_V7854252014_Win7_V8314232014_Win8	Realtek_LAN_V7854252014_Win7_V8314232014_Win8	setup -s	
5	Intel(R) Management Engine	MEI_allOS_5.0M_8.1.40.1416	MEI_allOS_5.0M_8.1.40.1416	setup -s	
6	AHCI/RAID: Intel® Matrix Storage Manager	STOR_Win7_8_12.5.0.1066.exe STOR_Win7_8_12.5.0.1066_f6flpy-x86	STOR_Win7_8_12.5.0.1066.exe STOR_Win7_8_12.5.0.1066_f6flpy-x64	setup -s	
7	Card Reader	RtsUVStor_6.2.9200.39052_XP-7-8-8-1	RtsUVStor_6.2.9200.39052_XP-7-8-8-1		

\*\*\*Graphics Driver for External VGA card can be downloaded from Viglen FTP site: <http://www.viglen.co.uk/viglen/support/ftpgraphics.aspx>

**INF Driver Package details (Vig670W): Windows 8**

Driver Description	Hardware ID	Version	Date
Xeon(R) processor E3-1200 v2 3rd Gen Core processor DRAM Controller - 0150	PCI\VEN_8086&DEV_0150&SUBSYS_01011C6C&REV_09	9.3.0.1029	25/07/2013
Intel(R) Desktop Workstation Server Express Chipset SATA AHCI Controller	PCI\VEN_8086&DEV_1C02&SUBSYS_01191C6C&REV_05	12.8.0.1016	08/01/2013
Intel(R) 6 Series C200 Series Chipset Family PCI Express Root Port 1 - 1C10	PCI\VEN_8086&DEV_1C10&SUBSYS_010E1C6C&REV_B5	9.2.0.1035	25/07/2013
Intel(R) 6 Series C200 Series Chipset Family PCI Express Root Port 2 - 1C12	PCI\VEN_8086&DEV_1C12&SUBSYS_010F1C6C&REV_B5	9.2.0.1035	25/07/2013
Intel(R) 6 Series C200 Series Chipset Family PCI Express Root Port 3 - 1C14	PCI\VEN_8086&DEV_1C14&SUBSYS_01101C6C&REV_B5	9.2.0.1035	25/07/2013
Intel(R) 6 Series C200 Series Chipset Family PCI Express Root Port 4 - 1C16	PCI\VEN_8086&DEV_1C16&SUBSYS_00111C6C&REV_B5	9.2.0.1035	25/07/2013
Intel(R) 6 Series C200 Series Chipset Family SMBus Controller - 1C22	PCI\VEN_8086&DEV_1C22&SUBSYS_011A1C6C&REV_05	9.2.0.1035	25/07/2013
Intel(R) Display Audio	HDAUDIO\FUNC_01&VEN_8086&DEV_2805&SUBSYS_80860101&REV		
Intel(R) HD Graphics	PCI\VEN_8086&DEV_0152&SUBSYS_01021C6C&REV_09	10.18.10.3496	03/11/2014
Intel(R) Management Engine Interface	PCI\VEN_8086&DEV_1C3A&SUBSYS_011D1C6C&REV_04	9.5.15.17.30	07/02/2013
Qualcomm Atheros AR1111 Wireless Network Adapter	PCI\VEN_168C&DEV_0037&SUBSYS_11951A3B&REV_01	Built in	
Realtek High Definition Audio	HDAUDIO\FUNC_01&VEN_10EC&DEV_0662&SUBSYS_1C6C010E&REV	6.0.1.7240	05/06/2014
Realtek PCIe GBE Family Controller	PCI\VEN_10EC&DEV_8168&SUBSYS_01231C6C&REV_07	8.031.0423.2014	04/23/2014
VIA USB eXtensible Host Controller	PCI\VEN_1106&DEV_3432&SUBSYS_34321106&REV_03	Built in	
VIA USB 2 Hub	USB\VID_2109&PID_0811&REV_0200	Built in	
VIA USB 3 Root Hub	USB\VID_0811&PID_2109	Built in	
USB2.0-CRW	USB\VID_0BDA&PID_0129&REV_3960	6.2.9200.39052	08/08/2013



PROPRIETARY

Windows 8.1 (32 & 64Bit)		Driver/Utility			
		Executable File		Silent Switch	Comments
		Windows 8.1 32 Bit	Windows 8.1 64 Bit		
Installation order					
1	Chipset:	INF_allIOS_9.4.0.1027.exe	INF_allIOS_9.4.0.1027.exe	setup -s	
2	Onboard Graphics	GFX_Win7_8_8.1_32_10.18.10.3496	GFX_Win7_8_8.1_64_10.18.10.3496		
3	Audio: Realtek* ALC Audio	AUD_Win8.1_Win8_Win7_6.0.1.7240	AUD_Win8.1_Win8_Win7_6.0.1.7240	setup -s	
4	LAN: Realtek	Realtek_LAN_V7854252014_Win7_V8314232014_Win8	Realtek_LAN_V7854252014_Win7_V8314232014_Win8	setup -s	
5	Intel(R) Management Engine	MEI_allIOS_5.0M_8.1.40.1416	MEI_allIOS_5.0M_8.1.40.1416	setup -s	
6	AHCI/RAID: Intel® Matrix Storage Manager	STOR_Win7_8_12.5.0.1066.exe STOR_Win7_8_12.5.0.1066_f6flpy-x86	STOR_Win7_8_12.5.0.1066.exe STOR_Win7_8_12.5.0.1066_f6flpy-x64	setup -s	
7	Card Reader	RtsUVStor_6.2.9200.39052_XP-7-8-8-1	RtsUVStor_6.2.9200.39052_XP-7-8-8-1		

\*\*\*Graphics Driver for External VGA card can be downloaded from Viglen FTP site: <http://www.viglen.co.uk/viglen/support/ftpgraphics.aspx>

**INF Driver Package details (Vig670W): Windows 8.1**

Driver Description	Hardware ID	Version	Date
Xeon(R) processor E3-1200 v2 3rd Gen Core processor DRAM Controller - 0150	PCI\VEN_8086&DEV_0150&SUBSYS_01011C6C&REV_09	9.3.0.1029	25/07/2013
Intel(R) Desktop Workstation Server Express Chipset SATA AHCI Controller	PCI\VEN_8086&DEV_1C02&SUBSYS_01191C6C&REV_05	12.8.0.1016	08/01/2013
Intel(R) 6 Series C200 Series Chipset Family PCI Express Root Port 1 - 1C10	PCI\VEN_8086&DEV_1C10&SUBSYS_010E1C6C&REV_B5	9.2.0.1035	25/07/2013
Intel(R) 6 Series C200 Series Chipset Family PCI Express Root Port 2 - 1C12	PCI\VEN_8086&DEV_1C12&SUBSYS_010F1C6C&REV_B5	9.2.0.1035	25/07/2013
Intel(R) 6 Series C200 Series Chipset Family PCI Express Root Port 3 - 1C14	PCI\VEN_8086&DEV_1C14&SUBSYS_01101C6C&REV_B5	9.2.0.1035	25/07/2013
Intel(R) 6 Series C200 Series Chipset Family PCI Express Root Port 4 - 1C16	PCI\VEN_8086&DEV_1C16&SUBSYS_00111C6C&REV_B5	9.2.0.1035	25/07/2013
Intel(R) 6 Series C200 Series Chipset Family SMBus Controller - 1C22	PCI\VEN_8086&DEV_1C22&SUBSYS_011A1C6C&REV_05	9.2.0.1035	25/07/2013
Intel(R) Display Audio	HDAUDIO\FUNC_01&VEN_8086&DEV_2805&SUBSYS_80860101&REV		
Intel(R) HD Graphics	PCI\VEN_8086&DEV_0152&SUBSYS_01021C6C&REV_09	10.18.10.3496	03/11/2014
Intel(R) Management Engine Interface	PCI\VEN_8086&DEV_1C3A&SUBSYS_011D1C6C&REV_04	9.5.15.17.30	07/02/2013
Qualcomm Atheros AR1111 Wireless Network Adapter	PCI\VEN_168C&DEV_0037&SUBSYS_11951A3B&REV_01	Built in	
Realtek High Definition Audio	HDAUDIO\FUNC_01&VEN_10EC&DEV_0662&SUBSYS_1C6C010E&REV	6.0.1.7240	05/06/2014
Realtek PCIe GBE Family Controller	PCI\VEN_10EC&DEV_8168&SUBSYS_01231C6C&REV_07	8.031.0423.2014	04/23/2014
VIA USB eXtensible Host Controller	PCI\VEN_1106&DEV_3432&SUBSYS_34321106&REV_03	Built in	
VIA USB 2 Hub	VUSB\VID_2109&PID_0811&REV_0200	Built in	
VIA USB 3 Root Hub	USB\VID_2109&PID_0811&REV_0200	Built in	
USB2.0-CRW	USB\VID_0BDA&PID_0129&REV_3960	6.2.9200.39052	08/08/2013



PROPRIETARY

### Board support for legacy operating systems

Drivers for older operating systems that Microsoft has discontinued or does not fully support should be considered AS-IS in respect to features, function, debugging and usability. Viglen will not provide drivers or technical support for them as these operating systems have not been fully validated and not all the drivers are available. These operating systems include Windows Vista, Windows XP Editions, Windows ME, Windows 2000 Professional Edition, Windows NT, Windows 98 Standard Edition (SE), Windows 98 and Windows 95. Please refer to the following Microsoft sites for more information:

<http://support.microsoft.com/gp/lifepolicy>\*

<http://support.microsoft.com/gp/lifeselect>\*

<http://windows.microsoft.com/en-us/windows/products/lifecycle>\*

Windows XP (32 & 64Bit)		Driver/Utility			
		Executable File		Silent Switch	Comments
		Windows XP 32 Bit	Windows XP 64 Bit		
Installation order					
1	Chipset:	INF_allIOS_9.4.0.1027.exe	INF_allIOS_9.4.0.1027.exe	setup -s	
2	Onboard Graphics**	GFX_XP32_6.14.10.5437.exe	GFX_XP64_6.14.10.5437.exe		
3	Audio: Realtek* ALC Audio	AUD_WinXP-7-8-8-1_6.0.1.7040	AUD_WinXP-7-8-8-1_6.0.1.7040	setup -s	
4	LAN: Realtek	LAN_Realtek_XP_32_64Bit_5.794.0222.2012	LAN_Realtek_XP_32_64Bit_5.794.0222.2012	setup -s	
5	Intel(R) Management Engine	MEI_allIOS_5.0M_8.1.40.1416.zip	MEI_allIOS_5.0M_8.1.40.1416.zip	setup -s	
6	AHCI/RAID: Intel® Matrix Storage Manager	STOR_Win7_8_12.5.0.1066_f6flpy-x86.zip STOR_Win7_8_12.5.0.1066.exe	STOR_Win7_8_12.5.0.1066_f6flpy-x64.zip STOR_Win7_8_12.5.0.1066.exe	setup -s	
7	SD Card Reader	RtsUVStor_6.2.9200.39052_XP-7-8-8-1	RtsUVStor_6.2.9200.39052_XP-7-8-8-1		
8	WLAN:	WLAN_XP-9.2.0.462	WLAN_XP-9.2.0.462		

\*\*Before installing VGA drivers, Microsoft .Net 3.5 or higher version must be installed. Microsoft .Net can be downloaded from following URL: <http://www.microsoft.com/net/>. Microsoft.net 3.5 and 4.0 is also available on the Driver DVD under "Others" Folder

PROPRIETARY

### Other Drivers/Software

The following table lists WinPE, NDIS2 Lan drivers and Microsoft update/patch list.

Driver/Utility		
Folder Name	Win PE LAN driver	NDIS2_DOS
Win_PE_NDIS2_LAN_Driver	LAN_Realtek_Win7_32Bit_7.085.0423.2014	DOS_LAN_NDIS2
	LAN_Realtek_Win7_64Bit_7.085.0423.2014	
	LAN_Realtek_Win8_32Bit_8.031.0423.2014	
	LAN_Realtek_Win8_64Bit_8.031.0423.2014	
	LAN_Realtek_Win8-1_32Bit_8.031.0423.2014	
	LAN_Realtek_Win8-1_64Bit_8.031.0423.2014	
Others	Microsoft .Net 3.5SP1	

Drivers and latest BIOS are available from Viglen FTP site:

Vig670W - <http://download.viglen.co.uk/files/Motherboards/Vig670W/Drivers/>

### Graphics Cards

\*\*\* Graphics Driver for External VGA card can be downloaded from Viglen FTP site: <http://www.viglen.co.uk/viglen/support/ftpgraphics.aspx> or

AMD ATI - <http://support.amd.com/us/gpudownload/Pages/index.aspx>

nVidia - <http://www.nvidia.com/Download/index.aspx?lang=en-us>

Microsoft .Net can be downloaded from following URL: <http://www.microsoft.com/net/>. Microsoft.net 3.5 and 4.0 is also available on the Driver DVD under "Others" Folder

For BIOS, Drivers and Documentation enquiries please contact Viglen Technical Support Department on [technical@viglen.co.uk](mailto:technical@viglen.co.uk).

Remember to include your PC serial number in all correspondence.