

## 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:	Motherboard: <b>VIG680</b>
Revision: <b>1.0</b> Release Date: <b>Sept 2013</b>	Viglen Part code: <b>PMPMS680</b>

### Intel(R) Rapid Storage Technology Enterprise Driver:

Bios SATA Controller Mode	Controller
AHCI	Intel(R) 7 Series/C216 Chipset Family SATA AHCI Controller

### Unknown / Other Devices in Device Manager (DQ77MK):

Hardware Devices Listed in device Manager	Hardware ID	Associated Driver	INF Drivers
<b>IDE ATA/ATPI Controllers</b>			
Standard AHCI 1.0 serial ATA Controller	VEN_8086&DEV_1E02	AHCI	Intel(R) 7 Series C216 Chipset Family SATA AHCI Controller
<b>Other devices</b>			
Audio Device on High Definition Audio Bus	HDAUDIO\FUNC_01&VEN_8086	Display	Intel(R) Display Audio
Audio Device on High Definition Audio Bus		Audio	Realtek High Definition Audio
Ethernet Controller	PCI\VEN_10EC&DEV_8168	LAN driver	Realtek PCIe GBE Family Controller
PCI Serial port	PCI\VEN_8086&DEV_1E3D	AMT	Intel(R) Active Management Technology - SOL
PCI Simple Communication Controller	VEN_8086&DEV_1E3A	AMT	Intel(R) Management Engine Interface
SM BUS Controller	PCI\VEN_8086&DEV_1E22	Chipset	Intel(R) 7 Series C216 Chipset Family SMBus Host Controller - 1E22
Universal Serial BUS (USB) controller	PCI\VEN_8086&DEV_1E31	USB3.0	Intel(R) USB 3.0 eXtensible Host Controller
Unknown Device	IUSB3\ROOT_HUB30	USB3.0	Intel(R) USB 3.0 Root Hub
Video Controller (VGA compatible)	PCI\VEN_8086&DEV_0102	VGA Driver	Intel(R) HD Graphics
<b>(Only appears under Windows XP)</b> Unknown Devices	ACPI\PNP0C31 *PNP0C31	TPM	Trusted Platform Module 1.2 (OPTIONAL)
<b>Unknown</b>	ACPI\INT33A0	Communications Port	Intel(R) Smart Connect Technology Device

**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.



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**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.

<b>Windows 7 (32 &amp; 64Bit)</b>		<b>Driver/Utility</b>			
<b>Installation order</b>		<b>Executable File</b>		<b>Silent Switch</b>	<b>Comments</b>
		<b>Windows 7 32 Bit</b>	<b>Windows 7 64 Bit</b>		
<b>1</b>	Chipset:	INF_allIOS_9.4.0.1017_PV.exe	INF_allIOS_9.4.0.1017_PV.exe	setup -s	
<b>2</b>	Onboard Graphics	GFX_Win7_32_8.15.10.2761.exe	GFX_Win7_64_8.15.10.2761.exe	setup -s	2 <sup>nd</sup> Gen CPU
		GFX_Win7_Win8_32_9.18.10.3165.exe*	GFX_Win7_Win8_64_9.18.10.3165.exe*	setup -s	3 <sup>rd</sup> Gen CPU
<b>3</b>	Audio: Realtek* ALC Audio	AUD_XP_Win7_Win8_6.0.1.6959	AUD_XP_Win7_Win8_6.0.1.6959	setup -s	
<b>4</b>	Realtek PCIe GBE Family	LAN_Realtek_Win7_7.72.0410.2013	LAN_Realtek_Win7_7.72.0410.2013	setup -s	
<b>5</b>	Intel(R) Management Engine	AMT_allIOS_8.1.30.1349	AMT_allIOS_8.1.30.1349	setup -s	
<b>6</b>	USB3.0	USB_3.0_Win7_1.0.8.251.zip	USB_3.0_Win7_1.0.8.251.zip	setup -s	
<b>7</b>	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	
<b>8</b>	Intel(R) Smart Connect Technology Device	intel_Smart_Connect_Technology_3.0.42.1767	intel_Smart_Connect_Technology_3.0.42.1767	setup -s	

\*\*\*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 (DQ77MK): Windows 7**

<b>Driver Description</b>	<b>Hardware ID</b>	<b>Class</b>	<b>Version</b>	<b>Date</b>
Intel(R) 7 Series C216 Chipset Family SATA AHCI Controller	VEN_8086&DEV_1E02	IDE ATA/ATPI Controllers	12.5.0.1066	18-03-2013
Intel(R) 7 Series C216 Chipset Family SMBus Host Controller - 1E22	VEN_8086&DEV_1E22	Storage controller	9.3.0.1027	25-02-2013
Realtek PCIe GBE Family Controller		Network Adapters	7.072.0410.2013	
Intel(R) Active Management Technology - SOL	VEN_8086&DEV_1E3D	System Device	8.1.0.1252	06/25/2012
Intel(R) Management Engine Interface	VEN_8086&DEV_1E3A	System Device	8.1.0.1252	06/25/2012
Intel(R) Display Audio	HDAUDIO\FUNC_01&VEN_8086&DEV_2806	Sound, video & game controllers	6.16.0.3106	11-01-2013
Intel(R) HD Graphics	PCI\VEN_8086&DEV_0102	Display Adapter	9.18.10.3165	07-05-2013
Intel(R) Smart Connect Technology Device		Communications Port		
Realtek High Definition Audio		Sound, video & game controllers	6.0.1.6886	17/04/2013
Intel(R) USB 3.0 eXtensible Host Controller	PCI\VEN_8086&DEV_1E31	Universal Serial Bus controllers	1.0.8.251	22-02-2013
Intel(R) USB 3.0 Root Hub	IUSB3\ROOT_HUB30	Universal Serial Bus controllers	1.0.8.251	22-02-2013

Windows 8 (32 & 64Bit)		Driver/Utility			
Installation order		Executable File		Silent Switch	Comments
		Windows 7 32 Bit	Windows 7 64 Bit		
1	Chipset:	INF_allIOS_9.4.0.1017_PV.exe	INF_allIOS_9.4.0.1017_PV.exe	setup -s	
2	Onboard Graphics	GFX_Win7_32_8.15.10.2761.exe	GFX_Win7_64_8.15.10.2761.exe	setup -s	2 <sup>nd</sup> Gen CPU
		GFX_Win7_Win8_32_9.18.10.3165.exe*	GFX_Win7_Win8_64_9.18.10.3165.exe*	setup -s	3 <sup>rd</sup> Gen CPU
3	Audio: Realtek* ALC Audio	AUD_XP_Win7_Win8_6.0.1.6959	AUD_XP_Win7_Win8_6.0.1.6959	setup -s	
4	Realtek PCIe GBE Family	LAN_Realtek_Win7_7.72.0410.2013	LAN_Realtek_Win7_7.72.0410.2013	setup -s	
5	Intel(R) Management Engine	AMT_allIOS_8.1.30.1349	AMT_allIOS_8.1.30.1349	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	Intel(R) Smart Connect Technology Device	intel_Smart_Connect_Technology_3.0.42.1767	intel_Smart_Connect_Technology_3.0.42.1767	setup -s	

\*\*\*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 (VIG680): Windows 8**

Driver Description	Hardware ID	Class	Version	Date
Intel(R) 7 Series C216 Chipset Family SATA AHCI Controller	VEN_8086&DEV_1E02	IDE ATA/ATPI Controllers	12.5.0.1066	18-03-2013
Intel(R) 7 Series C216 Chipset Family SMBus Host Controller - 1E22	VEN_8086&DEV_1E22	Storage controller	9.3.0.1027	25-02-2013
Realtek PCIe GBE Family Controller		Network Adapters	7.072.0410.2013	
Intel(R) Active Management Technology - SOL	VEN_8086&DEV_1E3D	System Device	8.1.0.1252	06/25/2012
Intel(R) Management Engine Interface	VEN_8086&DEV_1E3A	System Device	8.1.0.1252	06/25/2012
Intel(R) Display Audio	HDAUDIO\FUNC_01&VEN_8086&DEV_2806	Sound, video & game controllers	6.16.0.3106	11-01-2013
Intel(R) HD Graphics	PCI\VEN_8086&DEV_0102	Display Adapter	9.18.10.3165	07-05-2013
Intel(R) Smart Connect Technology Device		Communications Port		
Realtek High Definition Audio		Sound, video & game controllers	6.0.1.6886	17/04/2013



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**\*Graphics DRIVER VERSION:** This combined driver for both Windows 8 and Windows 7 adds support for 3<sup>rd</sup> and 4th Generation Intel® Core™ Processors and fixes bugs reported on 3rd and 4th Generation Intel Core Processors:

GFX\_Win7\_Win8\_32\_9.18.10.3165.exe\*

GFX\_Win7\_Win8\_64\_9.18.10.3165.exe\*

For 2<sup>nd</sup> generation CPU's please use older drivers.

GFX\_Win7\_32\_8.15.10.2761

GFX\_Win7\_64\_8.15.10.2761

### 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
Installation order		Windows XP 32 Bit	Windows XP 64 Bit		
1	Chipset:	INF_allIOS_9.4.0.1017_PV.exe	INF_allIOS_9.4.0.1017_PV.exe	setup -s	
2	Onboard Graphics**	GFX_XP32_6.14.10.5415.exe	GFX_XP64_6.14.10.5415.exe		
3	Audio: Realtek* ALC Audio	AUD_XP_Win7_Win8_6.0.1.6959	AUD_XP_Win7_Win8_6.0.1.6959	setup -s	
4	LAN: Realtek PCIe GBE	LAN_Realtek_XP_5.814.0624.2013	LAN_Realtek_XP_5.814.0624.2013	setup -s	
5	Intel(R) Management Engine	MEI_allIOS_8.1.0.1265_5M	MEI_allIOS_8.1.0.1265_5M	setup -s	
6	AHCI/RAID: Intel® Matrix Storage Manager	f6flpy-x86_11.2.0.1006 STOR_Win7_XP_11.2.0.1006.exe	f6flpy-x64_11.2.0.1006 STOR_Win7_XP_11.2.0.1006.exe	setup -s	
7	TPM 1.2 module	Intel_TPM_XP_5.0.1.1085	Intel_TPM_XP_5.0.1.1085		

*\*\*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*

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### 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_7.072.0410.2013	DOS_LAN_NDIS2
	LAN_Realtek_Win7_64Bit_7.072.0410.2013	
	LAN_Realtek_Win8_32Bit_8.015.0410.2013	
	LAN_Realtek_Win8_64Bit_8.015.0410.2013	
	LAN_Realtek_XP_32Bit_5.814.0624.2013	
Others	Microsoft .Net 3.5SP1	
	WindowsInstaller-KB893803-v2-x86.exe	
	XP Patch: USB Keyboard S3 USB20	

Drivers and latest BIOS are available from Viglen FTP site:

Vig680W - <http://download.viglen.co.uk/files/Motherboards/Vig680/>

### 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.