

# Windows 10 BIOS Setting VIG451J (PMPFS451)

Vig451J system configured with Windows 10 will have following default BIOS settings. If you wish to downgrade from Windows 10 to Windows 7 or other legacy operating system, then BIOS must be configured to Non-UEFI mode.

| Windows 8/8.1 UEFI mode B  | IOS settings.  |
|--|--|
| Secure Boot Control  | [Enabled]  |
| CSM Parameters<br>CSM Configuration<br>Launch CSM<br>Boot Option filter<br>Launch PXE OpROM po<br>Launch Storage OpROM<br>Launch Video OpROM p | [Enabled]<br>[UEFI Only]<br>licy [UEFI only]<br>I policy [UEFI only]<br>policy [UEFI OpROM]            |
| Other PCI device ROM   | priority [UEFI OpROM]  |
| Windows 7 (Non UEFI Mode   | ) BIOS settings.   |
| Secure Boot Control  | [Disabled]   |
| CSM Parameters<br>CSM Configuration<br>Launch CSM<br>Boot Option filter<br>Launch PXE OpROM po<br>Launch Storage OpROM<br>Launch Video OpROM p | [Enabled]<br>[UEFI and Legacy]<br>licy [Legacy Only]<br>1 policy [Legacy Only]<br>policy [Legacy Only] |

Other PCI device ROM priority [Legacy OpROM]

To enable downgrade to Windows 7 operating system, BIOS settings must be changed to boot into Legacy BIOS mode (Non UEFI Mode).

#### Note

Please ensure the changes of the following settings are performed by personnel with some previous experience/knowledge of altering BIOS settings.



| BIOS Information<br>BIOS Vendor<br>Customized by<br>Core Version | American Megatrends<br>Fujitsu<br>4.6.5.4 | This submenu provides details<br>on the system configuration  |
|--|---|---|
|  |   |   |
| System Language  | [English]                                 |   |
| System Date<br>System Time                                       | [Mon 11/24/2014]<br>[08:00:19]            |   |
| Access Level   | Administrator                             | <pre>++: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Heip F2: Previous Values F3: Optimized Defaults F4: Save &amp; Exit ESC: Exit</pre> |

Figure 1- BIOS setup Screen

# BIOS Settings for Windows 8/8.1 Operating System (UEFI Mode)

### **Accessing BIOS Setup**

Press the **<DEL>** key to access BIOS setup during POST checks.

## Enabling Windows 8/8.1 Features [UEFI Mode]

- 1. From the BIOS main menu select <Security>
- 2. Select <Secure Boot>



Figure 2 – Secure Boot option

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3. On the 'Secure Boot Configuration' menu Enable below settings:

| Aptio Securi  | ty                                   | Hile I Carl Hegari ends, Inc.  |
|---|--------------------------------------|--|
| Secure Boot Configurati<br>System Mode<br>Secure Boot | on<br>User<br>Not Active<br>TEnabled | Secure Boot can be enabled I<br>1.System running in User mod<br>with enrolled Platform Key(Pi<br>2.CSM function is disabled  |
| Secure Boot Mode<br>• Key Management                  | [Standard]                           | ++: Select Screen<br>14: Select Item<br>Enter: Select<br>+/-: Change Opt.<br>F1: General Help<br>F2: Previous Values<br>F3: Optimized Defaults<br>F4: Save & Exit<br>ESC: Exit |

Figure 3 – Secure Boot Configuration

4. From Secure Boot Mode Select [Custom]



Figure 4 – Secure Boot configuration



5. Enable Factory Default Key Provisioning



Figure 5 – Secure Boot Default Key Provisioning

6. Select 'Enrol All Factory Default Keys' to install the default keys. Ensure all keys are set to installed

| Factory Default Key Provisioning<br>Enroll All Factory Default Keys<br>Save Secure Boot Keys  | [Enabled] | Install Factory default Secure<br>Boot Keys when System is in<br>Setup Mode.   |
|---|-----------|--|
| Platform Key (PK)<br>> Delete PK<br>> Set new PK  | INSTALLED |  |
| Key Exchange Key Database(KEK)<br>▶ Delete KEK<br>▶ Set new KEK   | INSTALLED |  |
| <ul> <li>Append KEK</li> <li>Authorized Signature Database(DB)</li> <li>Delete DB</li> <li>Set new DB</li> <li>Append OB</li> </ul> | INSTALLED | ++: Select Screen<br>T1: Select Item<br>Enter: Select<br>+/-: Change Opt,<br>F1: General Help<br>F2: Previous Values |
| Forbidden Signature Database(DBX)<br>▶ Delete DBX<br>▶ Set new DBX<br>▶ Append DBX  | INSTALLED | F3: Optimized Defaults<br>F4: Save & Exit<br>ESC: Exit   |

Figure 6 - Secure Boot Default Key Provisioning

- 7. Press Escape to Exit the Secure Boot Default Key Provisioning screen.
- 8. Set the Secure mode to [Standard]



| Secure Boot Configuration            |                    | Secure Boot can be enabled if  |
|--------------------------------------|--------------------|--|
| System Mode<br>Secure Boot           | User<br>Not Active | with enrolled Platform Key(PK)<br>2.CSM function is disabled   |
|                                      | [Enabled]          |  |
| Secure Boot Mode<br>▶ Key Management | [Standard]         |  |
|                                      |                    | ++: Select Screen<br>f1: Select Item<br>Enter: Select<br>+/-: Change Opt.<br>F1: General Help<br>F2: Previous Values<br>F3: Optimized Defaults<br>F4: Save & Exit<br>ESC: Exit |

Figure 7 – Final Secure Boot Configuration Settings

**Note: When Secure Boot Control is set to [Enabled],** CSM Parameters option will not be visible under Boot screen. CSM parameters is available when Secure Boot Control is set to **[Disabled]** 

| Boot Configuration<br>Bootup NumLock State  | [0ff]                                  | OpROM execution, boot option<br>filter, etc. |
|---|--|--|
| Quiet Boot  | [Enabled]                              |  |
| Check controllers health status   | [Disabled]                             |  |
| POST Errors   | [Enabled]                              |  |
| Remove Invalid Boot Options   | [Disabled]                             |  |
| Primary Display   | [Slot 6]                               |  |
| Boot Removable Media  | [Enabled]                              |  |
| Virus Warning   | [Disabled]                             |  |
| Boot Option Priorities  |  |  |
| Boot Option #1  | [Windows Boot Manager]                 | ++: Select Screen                            |
| Boot Option #2  | [UEFI: IP4 Intel(R)<br>82579LM Gigabit | t4: Select Item<br>Enter: Select             |
| Boot Option #3  | INFET: TPS Totel(R)                    | E1: General Help                             |
| book option we  | 82579LM Gigabit                        | F2: Previous Values                          |
|   | Network Connection]                    | F3: Optimized Defaults                       |
| A second s |  | F4: Save & Exit                              |
| CSH parameters  |  | ESC: Exit                                    |
|   |  |  |

Figure 8 – CSM parameters under Boot screen



For Windows 8/8.1 configuration CSM Parameters are set to following:

| CSM Parameters              |              |
|-----------------------------|--------------|
| CSM Configuration           |              |
| Launch CSM                  | [Enabled]    |
| <b>Boot Option filter</b>   | [UEFI Only]  |
| Launch PXE OpROM policy     | [UEFI only]  |
| Launch Storage OpROM policy | [UEFI only]  |
| Launch Video OpROM policy   | [UEFI OpROM] |

Other PCI device ROM priority [UEFI OpROM]

| CSM Configuration  |   | This option controls if CSH  |
|--|---|--|
| Launch CSM<br>Boot option filter<br>Launch PXE OpROM policy<br>Launch Storage OpROM policy<br>Launch Video OpROM policy<br>Other PCI device ROM priority | [Enabled]<br>[UEFI only]<br>[UEFI only]<br>[UEFI only]<br>[UEFI only]<br>[UEFI OpROM] | will be launched   |
|  |   | ++: Select Screen<br>11: Select Item<br>Enter: Select<br>+/-: Change Opt.<br>F1: General Help<br>F2: Previous Values<br>F3: Optimized Defaults<br>F4: Save & Exit<br>ESC: Exit |

Figure 9 – UEFI CSM Settings

For Windows 7 operating systems Secure Boot Control settings should be set to Disabled.



# **Disabling Windows 8/8.1 Features [Non UEFI Mode]**

## **Disabling Secure Boot**

1. Select 'Secure Boot' from Security Screen.



Figure 10 – Default Key Provisioning [Disabled]

2. Select Secure Boot Control and select [Disabled]

| Secure Boot Configuration |            | Secure Boot can be enabled i<br>1.System running in User mod |
|---------------------------|------------|--|
| System Mode               | User       | with enrolled Platform Key(P)                                |
| Secure Boot               | Not Active | 2.CSM function is disabled                                   |
|                           | [Enabled]  |  |
| Secure Boot Mode          | [Standard] |  |
| Key Management            |            |  |
|                           |            |  |
|                           |            | ++: Select Screen  |
|                           |            | <b>11:</b> Select Item                                       |
|                           |            | Enter: Select  |
|                           |            | F1: General Help   |
|                           |            | F2: Previous Values  |
|                           |            | F4: Save & Exit  |
|                           |            | ESC: Exit  |
|                           |            |  |

Figure 11 – Disabling Secure Boot



- 3. Press <**ESC key>** to exit the Security Menu and navigate to the Boot Menu.
- 4. Select **<CSM parameters>** and change the settings to following:

| CSM Parameters              |                   |
|-----------------------------|-------------------|
| CSM Configuration           |                   |
| Launch CSM                  | [Enabled]         |
| Boot Option filter          | [UEFI and Legacy] |
| Launch PXE OpROM policy     | [Legacy Only]     |
| Launch Storage OpROM policy | [Legacy Only]     |
| Launch Video OpROM policy   | [Legacy Only]     |

Other PCI device ROM priority [Legacy OpROM]

| Sh com isunation              |                      | This option controls what  |
|-------------------------------|----------------------|----------------------------|
| aunch CCN                     |                      | devices system can boot to |
| aunch CSM                     | [Enabled]            |                            |
| aunch PVF OpPDM policy        | [UEFI and Legacy]    |                            |
| aunch Storage DoRDM policy    | [Legacy only]        |                            |
| Launch Video OpROM policy     | [Legacy only]        |                            |
| Other PCI device ROM priority | [Legacy OpROM]       |                            |
|                               | Boot option filter — |                            |
|                               | UEFI and Legacy      |                            |
|                               | UEET only            | Ht: Select Screen          |
|                               |                      | 11: Select Item            |
|                               |                      | Enter: Select              |
|                               |                      | +/-: Change Opt.           |
|                               |                      | F1: General Help           |
|                               |                      | F3: Ontimized Defaults     |
|                               |                      | F4: Save & Exit            |
|                               |                      | ESC: Exit                  |
|                               |                      |                            |



5. Once all BIOS settings have been configured press <F4> key to Save and Exit the BIOS Setup.

#### Additional information:

For BIOS, Drivers and Documentation enquiries please contact Viglen Technical Support Department on technical@viglen.co.uk.

Remember to include your PC serial number in all correspondence.