Statement of Volatility - Dell P2219H Monitor

The purpose of this document is to certify that the Dell P2219H monitor will not save, retain, or reproduce a signal to any internal or external component after power has been removed and reapplied to the unit.

The Dell P2219H monitor contains both volatile and non-volatile (NV) memory ICs. Volatile memory(s) lose their data immediately upon removal of power. Non-volatile memory ICs continue to retain their data even after the power has been removed. However, no input video data is written into these memory ICs during operation.

List below contains volatile and non-volatile memory ICs used in the Dell P2219H monitor.

<table>
<thead>
<tr>
<th>System EEPROM</th>
<th>ST M24C16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>16Kbit</td>
</tr>
<tr>
<td>Type [e.g. Flash PROM, EEPROM]</td>
<td>EEPROM</td>
</tr>
<tr>
<td>Volatility</td>
<td>Non-volatile</td>
</tr>
<tr>
<td>Can user programs or operating system write data to it during normal operation?</td>
<td>OSD setting: Yes</td>
</tr>
<tr>
<td>Purpose</td>
<td>Storage of system setting (OSD)</td>
</tr>
<tr>
<td>How is data input to this memory?</td>
<td>Controls the OSD menu and changes OSD settings (ex. brightness, contrast, color settings) and the settings will be stored into system EEPROM.</td>
</tr>
<tr>
<td>How is this memory write protected?</td>
<td>Software write protected.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>VGA EDID EEPROM</th>
<th>ROHM BR24G02</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>2Kbit</td>
</tr>
<tr>
<td>Type [e.g. Flash PROM, EEPROM]</td>
<td>EEPROM</td>
</tr>
<tr>
<td>Volatility</td>
<td>Non-volatile</td>
</tr>
<tr>
<td>Can user programs or operating system write data to it during normal operation?</td>
<td>No</td>
</tr>
<tr>
<td>Purpose</td>
<td>Storage of VGA EDID</td>
</tr>
<tr>
<td>How is data input to this memory?</td>
<td>VGA EDID is embedded in the firmware, and copied to EEPROM after F/W programming. (or via customized EDID tool)</td>
</tr>
<tr>
<td>----------------------------------</td>
<td>---------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>How is this memory write protected?</td>
<td>Hardware and software write protected</td>
</tr>
</tbody>
</table>

### HDMI EDID EEPROM

<table>
<thead>
<tr>
<th><strong>ROHM BR24G02</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Size</strong></td>
<td>2Kbit</td>
</tr>
<tr>
<td><strong>Type [e.g. Flash PROM, EEPROM]</strong></td>
<td>EEPROM</td>
</tr>
<tr>
<td><strong>Volutility</strong></td>
<td>Non-volatile</td>
</tr>
<tr>
<td><strong>Can user programs or operating system write data to it during normal operation?</strong></td>
<td>No</td>
</tr>
<tr>
<td><strong>Purpose</strong></td>
<td>Storage of HDMI EDID</td>
</tr>
<tr>
<td><strong>How is data input to this memory?</strong></td>
<td>HDMI EDID is embedded in the firmware and copied to EEPROM after F/W programming. (or via customized EDID tool)</td>
</tr>
<tr>
<td><strong>How is this memory write protected?</strong></td>
<td>Hardware and software write protected</td>
</tr>
</tbody>
</table>

### Flash ROM

<table>
<thead>
<tr>
<th><strong>ISSI PM25LQ040B</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Size</strong></td>
<td>4M bit</td>
</tr>
<tr>
<td><strong>Type [e.g. Flash PROM, EEPROM]</strong></td>
<td>Serial flash memory</td>
</tr>
<tr>
<td><strong>Volutility</strong></td>
<td>Non-volatile</td>
</tr>
<tr>
<td><strong>Can user programs or operating system write data to it during normal operation?</strong></td>
<td>No</td>
</tr>
<tr>
<td><strong>Purpose</strong></td>
<td>To store firmware.</td>
</tr>
<tr>
<td><strong>How is data input to this memory?</strong></td>
<td>Loading flash memory requires a vendor-provided tool and firmware.</td>
</tr>
<tr>
<td><strong>How is this memory write protected?</strong></td>
<td>Software write protected</td>
</tr>
</tbody>
</table>

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