



CryptoServer Se-Series Gen2 Supported Workstation and Server Hardware (June 2016)

CryptoServer Se-Series Gen2 plug-in cards have successfully been tested on the following hardware platforms (sorted alphabetically by vendor, recent platforms first).

| Workstation and Server Hardware | Configuration (Processor, Operating System) |
|--|---|
| Dell PowerEdge R730 | Intel Xeon E5-2600 v3 Series, 8 Cores, chipset Intel C610, PCIe x8 and x16 slots Windows Server 2012 R2 |
| Dell PowerEdge R720 | Intel Xeon E5-2600 Series, 4/8 Cores, chipset Intel C600 Debian Linux, RedHat Linux Enterprise Server 6.1 |
| Fujitsu Siemens Esprimo P920 MI5W | Intel Core i5-4570, chipset Intel Haswell Q87 Windows 7 |
| HP ProLiant DL360 Gen9 | Intel Xeon E5-2609 v3 (6 Cores), chipset Intel C610 RedHat Linux Enterprise Server 6.6 |
| HP ProLiant DL320e Gen8 v2 | Intel Xeon E3-1220 v3 Quadcore Debian 7 |
| HP ProLiant ML350p Gen8 | Intel Xeon E5-2600 Series, chipset Intel C600 Suse Linux Enterprise Server 11.1 |
| IBM System x3650 M3 | Intel Xeon 5600 Series, 6 Cores Debian Linux, RedHat Linux Enterprise Server 6.1, Windows Server 2003 R2, Windows Server 2008 R2 |
| Supermicro motherboards with and without riser card | * X10SLH-F, with Intel Xeon E3-1200 v3 Series, chipset Intel C222 Express PCH, Linux * X9SAE-V with Intel Xeon E3-1200 v2 Series, chipset Intel C216 Express PCH, Linux * X9SCM-F with Intel Xeon processor E3-1200 and E3-1200 v2 Series, chipset Intel C204PCH, Linux |
| Supermicro motherboards with riser card RSC-R2U-E8 | * X9SRI-F with Intel Xeon processor E5-2600 Series, chipset Intel C602, Linux * X9SCM-F with Intel Xeon processor E3-1200 Series, chipset Intel C204PCH, Linux * X8SIL-F-O with Intel Xeon processor X3400 Series, chipset Intel 3420, Linux |



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| Dell PowerEdge R720 | Intel Xeon E5-2600 Series, 4/8 Cores, chipset Intel C600 Debian Linux, RedHat Linux Enterprise Server 6.1 |
| Dell PowerEdge R710 | Intel Xeon 5500 Series, Quad Core, chipset Intel 5520 Debian Linux, Suse Linux Enterprise Server 11.1, RedHat Linux Enterprise Server 6.1, Windows Server 2008 R2 |
| Dell PowerEdge R620 | Intel Xeon E5-2600 Series, Quad Core, chipset Intel C600 Suse Linux Enterprise Server 11.2 |
| Dell PowerEdge R610 | Intel Xeon 5500 Series, Quad Core, chipset Intel 5520 Debian Linux |
| Dell PowerEdge R510 | Intel Xeon 5500 Series, Quad Core, chipset Intel 5500 Ubuntu 14.04 |
| HP ProLiant DL360 Gen9 | Intel Xeon E5-2609 v3 (6 Cores), chipset Intel C610 RedHat Linux Enterprise Server 6.6 |
| HP ProLiant ML350p Gen8 | Intel Xeon E5-2600 Series, chipset Intel C600 (when installed in PCIe 2.0 slot, i.e. expansion slot #5) Suse Linux Enterprise Server 11.1 |
| HP ProLiant DL380p Gen8 | Intel Xeon E5-2600 Series, chipset Intel C600 (when installed in PCIe 2.0 slot, i.e. expansion slot #3) Red Hat Enterprise Linux |
| HP ProLiant DL385 G7 | AMD Opteron™ Modell 6128, 8 Cores, chipset AMD SR5690 Northbridge and SP5100 Southbridge Debian Linux, Suse Linux Enterprise Server 11.1, Red Hat Enterprise Linux 6, Windows Server 2008 R2 |
| IBM System x3650 M3 | Intel Xeon 5600 Series, 6 Cores Debian Linux, RedHat Linux Enterprise Server 6.1, Windows Server 2003 R2, Windows Server 2008 R2 |
| IBM System x3200 M3 | Intel Xeon 3430, Quad Core Linux |



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| Workstation and Server Hardware | Configuration (Processor, Operating System) |
|--|--|
| Intel® Server System R1304RPM5HOR | Intel Xeon E3-1200 v4 series, chipset Intel C226 Linux |
| Supermicro 2U Twin | Two Intel Xeon 5600/5500 Series processors, chipset Intel 5520 Linux |
| Supermicro motherboards without riser card | * X9SAE-V with Intel Xeon E3-1200 v2 Series, chipset Intel C216 Express PCH, x1- and x4-slot, Linux * X10SRW-F with Intel Xeon processor E5-2600 v3 Series, chipset Intel C216 Express PCH, Linux |
| Supermicro motherboards with riser card RSC-R2U-E8 | * X9SRI-F with Intel Xeon processor E5-2600 Series, chipset Intel C602, Linux * X9SCM-F with Intel Xeon processor E3-1200 Series, chipset Intel C204PCH, Linux * X8SIL-F-O with Intel Xeon processor X3400 Series, chipset Intel 3420, Linux |

Known issues

CryptoServer Se-Series plug-in cards have shown issues in some servers and workstations when a) the server / workstation is equipped with Intel Ivy-Bridge CPU (e.g. Intel Xeon E3-1200v2 family) and b) the CryptoServer Se-Series plug-in card is installed in PCIe 3.0 x16 slots. In such cases, the plug-in card is not detected by the CPU chipset, i.e. it is not visible at all in the Windows Device Manager resp. when executing the command "lspci" on a Linux system. Plugging the CryptoServer Se-Series card into PCIe 2.0 slots in the same server / workstation did not show any issue.

We recommend using PCIe 2.0 slots in case the plug-in card is not detected in a PCIe 3.0 slot.

Similar issues with more recent Intel CPUs and respective chipsets have not been encountered.



CryptoServer CSe-Series Supported Workstation and Server Hardware (June 2016)

CryptoServer CSe-Series plug-in cards have successfully been tested on the following hardware platforms (sorted alphabetically by vendor, recent platforms first).

| Workstation and Server Hardware | Configuration (Processor, Operating System) |
|---------------------------------|---|
| Dell PowerEdge R730 | Intel Xeon E5-2600 v3 Series, 8 Cores, chipset Intel C610, PCIe x8 and x16 slots Windows Server 2012 R2 |
| Dell PowerEdge R720 | Intel Xeon E5-2600 Series, 4/8 Cores, chipset Intel C600 Debian Linux, RedHat Linux Enterprise Server 6.1 |
| Dell PowerEdge R710 | Intel Xeon 5500 Series, Quad Core, chipset Intel 5520 Debian Linux, RedHat Linux Enterprise Server 6.1, Cent OS 6.4 |
| Dell PowerEdge R620 | Intel Xeon E5-2600 Series, Quad Core, chipset Intel C600 Suse Linux Enterprise Server 11.2 |
| Fujitsu Esprimo P910 | Intel Core i5-3470, chipset Q77 Windows 7 |
| HP ProLiant DL360 Gen9 | Intel Xeon E5-2609 v3 (6 Cores), chipset Intel C610 RedHat Linux Enterprise Server 6.6 |
| HP ProLiant DL320e Gen8 v2 | Intel Xeon E3-1200v3 Series, chipset Intel C222 Ubuntu 13.10 |
| HP ProLiant DL380 Gen8 | Intel Xeon E5-2600 Series, chipset Intel C600 Linux |
| HP ProLiant ML350p Gen8 | Intel Xeon E5-2600 Series, chipset Intel C600 Suse Linux Enterprise Server 11.1 |
| HP ProLiant DL385 G7 | AMD Opteron™ Modell 6128, 8 Cores, chipset AMD SR5690 Northbridge and SP5100 Southbridge Debian Linux, Suse Linux Enterprise Server 11.1, Red Hat Enterprise Linux 6, Windows Server 2008 R2 |
| IBM System x3250 M4 | Intel Xeon E3-1200 v2 Series Debian Linux, RedHat Linux Enterprise Server 6.1, Windows Server 2003 R2, Windows Server 2008 R2 |
| IBM System x3650 M3 | Intel Xeon 5600 Series, 6 Cores Debian Linux, RedHat Linux Enterprise Server 6.1, Windows Server 2003 R2, Windows Server 2008 R2 |



CryptoServer CSe-Series Supported Workstation and Server Hardware (June 2016)

Workstation and Server Hardware

Configuration (Processor, Operating System)

Supermicro motherboards

* X10SLL-F Rev 1.01., with Intel Xeon E3-1200 v3 Series, chipset Intel C222 Express PCH, Linux