

# Stratus Avance Compatibility Matrix R2.1.3

## 目次

Important Considerations.....	2
Supported bluechip Computer AG Configurations.....	3
Supported Dell® Configurations.....	5
Supported EXTRA Computer GmbH Configurations.....	8
Supported HP® Configurations.....	10
Supported IBM® Configurations.....	13
Supported ICO® Configurations.....	14
Supported Intel® Configurations.....	16
Supported Lynx® Configurations.....	19
Supported primeLine Solutions GmbH® Configurations.....	20
Supported Seneca® Configurations.....	22
Supported Tarox® Configurations.....	24
Supported Thomas-Krenn.AG® Configurations.....	26
Supported Wortmann® Configurations.....	28
Guest Operating Systems.....	30
Internet Browsers.....	30
Configuration Restrictions.....	31



## Important Considerations

Feature	Minimum
Avance のシステムディスク	物理サーバは最低下記のディスクを有していなければなりません。 <ul style="list-style-type: none"> <li>ひとつ以上の RAID1、RAID 5、RAID6 および RAID10 いずれかのディスク</li> <li>2つの非 RAID 構成ディスクまたは RAID0 のボリューム</li> </ul> 複数のボリュームで構成した RAID はサポートしていません。
USB サポート	直接サーバに接続される USB デバイスはサポートされていません。下記ネットワーク・アタッチ USB デバイスなどは使用可能です。 <ul style="list-style-type: none"> <li>StarTech.com 10/100/1000 Mbps Gigabit 1 Port USB over IP Device Server (USB1000IP)</li> <li>Silex SX-3000GB - Device server - Ethernet, Fast Ethernet, Gigabit Ethernet, Hi-Speed USB</li> <li>Pilotech USB Over IP (4 ports) Model No.: OIP006E</li> </ul>
USB CD/DVDドライブ	USB CD/DVD ドライブは Avance のインストール時に全てのモデルでご使用いただけます。
サーバ管理カード	<b>Dell DRAC4 および DRAC5 カードはサポートしていません。サーバ本体に装着しないでください。</b>
テープ装置の接続	TAPE デバイスを直接サーバに接続することはできません。本製品では、バックアップサーバ経由のバックアップやネットワーク・アタッチ TAPE 等の製品を推奨します。
VGA モニターの接続	サーバのコンソールはインストールやファームウェアのアップデートの際以外では使用できません。Avance のホスト OS にはアクセスできません。
SSD サポート	Avance は Solid State Drives をサポートします。詳しくはストレージコントローラーメーカーの仕様をご確認ください。
Avance がサポートするファームウェア	Avance は本ドキュメントに記載されている「サポート対象外のファームウェア」を除き、ファームウェアの提供元がサポートしている全てのバージョンをサポートします。検証済ファームウェア情報は Avance Customer/Partner Portal Site の「Avance Firmware Matrix」をご確認ください。



CREATING COMPUTERS.

## Supported bluechip Computer AG Configurations

### Servers (bluechip Computer AG)

Model	Description	Memory (Min/Max)	Disks (Min/Max)	CPU Chip Vendor / Model
SERVERline 3010T	1 CPU Socket, P4304BTLSHCN Intel Server Board S1200BTL Pedestal Hot Swap Drives	2/32 GB	2/4	<ul style="list-style-type: none"> <li>Intel Xeon E3 1200 Series</li> </ul>
SERVERline 5112R	2 CPU Socket, SR1625URSASR Intel Server Board S5520UR(R) 1U Rack Mount Active Midplane 2.5 Inch Drives	2/192 GB	2/8	<ul style="list-style-type: none"> <li>Intel Xeon 55XX Series</li> <li>Intel Xeon 56XX Series</li> </ul>
SERVERline 5211R	2 CPU Socket, SR2600URLXR Intel Server Board S5520UR(R) 2U Rack Mount Active Midplane 3.5 Inch Drives	2/192 GB	2/6	<ul style="list-style-type: none"> <li>Intel Xeon 55XX Series</li> <li>Intel Xeon 56XX Series</li> </ul>
SERVERline 5512R	2 CPU Socket, SC5600BRP Intel Server Board S5520HC(T) Pedestal 3.5 Inch Drives	2/192 GB	2/6	<ul style="list-style-type: none"> <li>Intel Xeon 55XX Series</li> <li>Intel Xeon 56XX Series</li> </ul>
SERVERline 5512T	2 CPU Socket, SC5600BRP Intel Server Board S5520HC(T) Pedestal 3.5 Inch Drives	2/192 GB	2/6	<ul style="list-style-type: none"> <li>Intel Xeon 55XX Series</li> <li>Intel Xeon 56XX Series</li> </ul>

### Storage Controllers, Expanders, and Enclosures (bluechip Computer AG)

Controller Vendor	Storage Controller	Restrictions/Comments
LSI	MegaRAID SAS 9260-4i	RAID 0, 1, 5, 6, 10 only
Intel	RAID Controller RS2BL080	RAID 0, 1, 5, 6, 10 only
Intel	SROMBSASMP <sup>1</sup>	SAS Active Midplane-2

<sup>1</sup> ファームウェアのバージョンは 11.0.1-0036 以上

## Network Controllers (bluechip Computer AG)

Controller Vender	Network Controller	Speed
Intel	Intel Ethernet Server Adapter x520-SR1 (E10G41BFSR) <sup>2</sup>	10Gb
Intel	Intel Ethernet Server Adapter x520 T2 (E10G42BT) <sup>3</sup>	10Gb
Intel	Intel Ethernet Server Adapter x520 DA2 (E10G42BTDA) <sup>4</sup>	10Gb
Intel	Intel Ethernet Server Adapter I350-T2	1Gb
Intel	Intel Ethernet Server Adapter I350-T4	1Gb
Intel	Intel PRO 1000PT Dual Port 1GbE NIC	1Gb
Intel	Intel PRO 1000PT Full Height Quad Port Server Adapter, Gigabit NIC	1Gb
Intel	Intel PRO 1000PT Low Profile Quad Port Server Adapter, Gigabit NIC	1Gb
Intel	Intel ET Dual Port NIC	1Gb
Intel	Intel ET Quad Port NIC	1Gb
Intel	Intel Gigabit ET2 Quad Port Server Adapter NIC	1Gb
Intel	Intel AXX4GBIOMOD2 Quad Port Gigabit Ethernet I/O Module	1Gb
Intel	Intel AXXGBIOMOD Dual Port Gigabit Ethernet I/O Module	1Gb

## サポート対象外のファームウェア (bluechip Computer AG)

Model/Device	Firmware Type	Blacklisted Revision
Intel SROMBSASMP2	Storage Controller	Intel-SROMBSASMP2-11.0.1-0022

<sup>2</sup> SFP+モジュールとケーブルについてのサポート情報はメーカーの提供情報をご確認ください。

<sup>3</sup> SFP+モジュールとケーブルについてのサポート情報はメーカーの提供情報をご確認ください。

<sup>4</sup> SFP+モジュールとケーブルについてのサポート情報はメーカーの提供情報をご確認ください。

## Supported Dell® Configurations

## Servers (Dell)

Model	Description	Memory (Min/Max)	Disks (Min/Max)	CPU Chip Vendor / Model
PowerEdge™ 1950	2 CPU Socket 1U Rack	2/32 GB	2/2	<ul style="list-style-type: none"> <li>▪ Intel® Xeon 51XX Series</li> <li>▪ Intel Xeon 53XX Series</li> </ul>
PowerEdge™ 1950 (III)	2 CPU Socket 1U Rack	2/64 GB	2/6	<ul style="list-style-type: none"> <li>▪ Intel Xeon 51XX Series</li> <li>▪ Intel Xeon 52XX Series</li> <li>▪ Intel Xeon 53XX Series</li> <li>▪ Intel Xeon 54XX Series</li> </ul>
PowerEdge 2950	2 CPU Socket 2U Rack	2/32 GB	2/8	<ul style="list-style-type: none"> <li>▪ Intel Xeon 51XX Series</li> <li>▪ Intel Xeon 53XX Series</li> </ul>
PowerEdge 2950 (III)	2 CPU Socket 2U Rack	2/64 GB	2/8	<ul style="list-style-type: none"> <li>▪ Intel Xeon 51XX Series</li> <li>▪ Intel Xeon 52XX Series</li> <li>▪ Intel Xeon 53XX Series</li> <li>▪ Intel Xeon 54XX Series</li> </ul>
PowerEdge 2900	2 CPU Socket Tower or Rack	2/48 GB	2/10	<ul style="list-style-type: none"> <li>▪ Intel Xeon 51XX Series</li> <li>▪ Intel Xeon 53XX Series</li> </ul>
PowerEdge 2900 (III)	2 CPU Socket Tower or Rack	2/48 GB	2/10	<ul style="list-style-type: none"> <li>▪ Intel Xeon 51XX Series</li> <li>▪ Intel Xeon 52XX Series</li> <li>▪ Intel Xeon 53XX Series</li> <li>▪ Intel Xeon 54XX Series</li> </ul>
PowerEdge R300	1 CPU Socket 1U Rack	2/24 GB	2/2	<ul style="list-style-type: none"> <li>▪ Intel Xeon 54XX Series</li> <li>▪ Intel Xeon 33XX Series</li> </ul>
PowerEdge R310	1 CPU Socket 1U Rack	2/32 GB	2/2	<ul style="list-style-type: none"> <li>▪ Intel Xeon 34XX Series</li> </ul>
PowerEdge R410	2 CPU Socket 1U Rack	2/128 GB	2/4	<ul style="list-style-type: none"> <li>▪ Intel Xeon 55XX Series</li> <li>▪ Intel Xeon 56XX Series</li> </ul>
PowerEdge R510	2 CPU Socket 2U Rack	2/128 GB	2/12 <sup>5</sup>	<ul style="list-style-type: none"> <li>▪ Intel Xeon 55XX Series</li> <li>▪ Intel Xeon 56XX Series</li> </ul>
PowerEdge R610	2 CPU Socket 1U Rack	2/128 GB	2/6	<ul style="list-style-type: none"> <li>▪ Intel Xeon 55XX Series</li> <li>▪ Intel Xeon 56XX Series</li> </ul>
PowerEdge R710	2 CPU Socket 2U Rack	2/128 GB	2/8	<ul style="list-style-type: none"> <li>▪ Intel Xeon 55XX Series</li> <li>▪ Intel Xeon 56XX Series</li> </ul>
PowerEdge T300	1 CPU Socket Tower	2/24 GB	2/4	<ul style="list-style-type: none"> <li>▪ Intel Xeon 54XX Series</li> <li>▪ Intel Xeon 33XX Series</li> </ul>
PowerEdge T310	1 CPU Socket Tower	2/32 GB	2/4	<ul style="list-style-type: none"> <li>▪ Intel Xeon 34XX Series</li> </ul>
PowerEdge T410	2 CPU Socket Tower	2/64 GB	2/6	<ul style="list-style-type: none"> <li>▪ Intel Xeon 55XX Series</li> <li>▪ Intel Xeon 56XX Series</li> </ul>
PowerEdge T610	2 CPU Socket Tower or 5U Rack	2/128 GB	2/8	<ul style="list-style-type: none"> <li>▪ Intel Xeon 55XX Series</li> <li>▪ Intel Xeon 56XX Series</li> </ul>
PowerEdge T710	2 CPU Socket Tower or 5U Rack	2/128 GB	2/16	<ul style="list-style-type: none"> <li>▪ Intel Xeon 55XX Series</li> <li>▪ Intel Xeon 56XX Series</li> </ul>

<sup>5</sup> 内蔵 CD/DVD ドライブが無い場合、Avance の Install または VCD を作成する際に USB CD ドライブが必要です。

## Storage Controllers (Dell)

Controller Vendor	Storage Controller	Restrictions/Comments
Dell	SAS5/i	
Dell	PERC 5/i	<ul style="list-style-type: none"> <li>RAID 0, 1, 5, 6, 10 only</li> <li>Avance does not support global disk sparing with Dell PERC 5 controllers. If this is attempted, Avance software reconfigures the drive to a RAID 0 drive. Please upgrade to a newer Dell controller if global sparing is required.</li> </ul>
Dell	SAS 6/i	<ul style="list-style-type: none"> <li>Non-RAID mode only</li> </ul>
Dell	SAS 6/iR	<ul style="list-style-type: none"> <li>Non RAID mode only</li> </ul>
Dell	PERC 6/i	<ul style="list-style-type: none"> <li>RAID 0, 1, 5, 6, 10 only</li> </ul>
Dell	H200 integrated / H200 adapter	<ul style="list-style-type: none"> <li>Non RAID mode only</li> <li>Minimum Firmware rev 07.01.24.00</li> </ul>
Dell	H700 integrated / H700 adapter (H700A)	<ul style="list-style-type: none"> <li>RAID 0, 1, 5, 6, 10 only</li> </ul>

## Network Controllers (Dell)

Controller Vendor	Network Controller	Speed/ Comments
Intel	Intel Ethernet Server Adapter x520-SR1 (E10G41BFSR) <sup>6</sup>	10Gb
Intel	Intel Ethernet Server Adapter x520 T2 (E10G42BT) <sup>6</sup>	10Gb
Intel	Intel Ethernet Server Adapter x520 DA2 (E10G42BTDA) <sup>6</sup>	10Gb
Broadcom	Embedded NetXtreme II 5708 Dual Port 1GbE NIC	1Gb
Broadcom	NetXtreme II 5709 Dual Port 1GbE NIC	1Gb - Min Firmware: BCM95709 5.0.12
Broadcom	NetXtreme II 5709 Quad Port 1GbE NIC	1Gb
Broadcom	NetXtreme II 5716 Dual Port 1GbE NIC	1Gb
Intel	Intel Ethernet Server Adapter I350-T2	1Gb
Intel	Intel Ethernet Server Adapter I350-T4	1Gb
Intel	Intel PRO 1000PT Dual Port 1GbE NIC	1Gb
Intel	Intel PRO 1000PT Full Height Quad Port Server Adapter, Gigabit NIC (EXPI9404PT)	1Gb
Intel	Intel® PRO 1000PT Low Profile Quad Port Server Adapter, Gigabit NIC (EXPI9404PTL)	1Gb
Intel	Intel PRO 1000 ET Dual Port NIC	1Gb
Intel	Intel PRO 1000 ET Quad Port NIC	1Gb
Intel	Intel Gigabit ET2 Quad Port Server Adapter NIC	1Gb

<sup>6</sup> SFP+モジュールとケーブルについてのサポート情報はメーカーの提供情報をご確認ください。

## Stratus® Avance Compatibility Matrix R2.1.3

### サポート対象外のファームウェア (Dell)

Model	Firmware Type	Revision
PowerEdge 1950 PowerEdge 2950 PowerEdge 2900	BMC	Dell-BMC-1.77
		Dell-BMC-1.97
		Dell-BMC-2.05
PowerEdge T310	BMC	Dell-BMC-1.00-A00-T310
PowerEdge R310	Network	Dell-BCM95709-Network-5.0.9
PowerEdge R410	Network	Dell-BCM95709-Network-5.0.9
PowerEdge R510	Network	Dell-BCM95709-Network-5.0.9
PowerEdge R610 PowerEdge T610 PowerEdge R710 PowerEdge T710	Network	Dell-BCM95709-Network-5.0.9
H200 integrated H200 Adapter	Storage Controller	Dell-STOR-07.01.11.00-Integrated



## Supported EXTRA Computer GmbH Configurations

### Servers (EXTRA Computer GmbH)

Model	Description	Memory (Min/Max)	Disks (Min/Max)	CPU Chip Vendor / Model
exone® Proxima Endurance 1911G4 <b>exone®</b>	1 CPU Socket, Intel Server Board S1200KP Pedestal Internal Drives	2/16 GB	2/4	Intel Xeon E3 12X5 Series <sup>7</sup>
exone® Proxima Endurance 1912G4 <b>exone®</b>	1 CPU Socket, Intel Server Board S1200KP Pedestal Hot Swap or Internal Drives	2/16 GB	2/4	Intel Xeon E3 12X5 Series <sup>7</sup>
exone® Proxima Endurance 1822 G3 <b>exone®</b>	2 CPU Socket, Intel Server Chassis SC5600LX Intel Server Board S5520HCR Pedestal 3.5 Inch Drives	2/192 GB	2/10	Intel Xeon 55XX Series Intel Xeon 56XX Series
exone® Proxima Endurance 1222 G3 <b>exone®</b>	2 CPU Socket, Intel Server Chassis SR2625 Intel Server Board S5520UR 2U Rack Mount 2.5 Inch Drives	2/192 GB	2/8	Intel Xeon 55XX Series Intel Xeon 56XX Series

### Storage Controllers, Expanders, and Enclosures (EXTRA Computer GmbH)

Controller Vendor	Storage Controller	Restrictions/Comments
Intel	Integrated on board RST RAID Module	<b>S1200KP only</b> , RAID 0 only, AHCI mode only
LSI	MegaRAID SAS 9260CV -4i	RAID 0, 1, 5, 6, 10 only
LSI	MegaRAID SAS 9260CV-8i	RAID 0, 1, 5, 6, 10 only
LSI	MegaRAID SAS 9260-4i	RAID 0, 1, 5, 6, 10 only
LSI	MegaRAID SAS 9260-8i	RAID 0, 1, 5, 6, 10 only
Intel	AXX4DRV3GEXP/ AXX4DRV3G	Storage Enclosure. Min Firmware rev 2.12
Intel	AXX6DRV3GEXP/ AXX6DRV3G	Storage Enclosure. Min Firmware rev 2.12

### Network Controllers (EXTRA Computer GmbH)

Controller Vendor	Network Controller	Speed
Intel	Intel Ethernet Server Adapter x520-SR1 (E10G41BFSR) <sup>8</sup>	10Gb
Intel	Intel Ethernet Server Adapter x520 T2 (E10G42BT) <sup>8</sup>	10Gb
Intel	Intel Ethernet Server Adapter x520 DA2 (E10G42BTDA) <sup>8</sup>	10Gb

<sup>7</sup> Xeon E3-12X0 プロセッサ (without embedded video) はサポートしません。

<sup>8</sup> SFP+モジュールとケーブルについてのサポート情報はメーカーの提供情報をご確認ください。

## Stratus® Avance Compatibility Matrix R2.1.3

Controller Vender	Network Controller	Speed
Intel	Intel Ethernet Server Adapter I350-T2 (I350T2)	1Gb
Intel	Intel Ethernet Server Adapter I350-T4 (I350T4)	1Gb
Intel	Intel PRO 1000PT Dual Port 1GbE NIC	1Gb
Intel	Intel PRO 1000PT Full Height Quad Port Server Adapter, Gigabit NIC	1Gb
Intel	Intel PRO 1000PT Low Profile Quad Port Server Adapter, Gigabit NIC	1Gb
Intel	Intel ET Dual Port NIC	1Gb
Intel	Intel ET Quad Port NIC	1Gb
Intel	Intel Gigabit ET2 Quad Port Server Adapter NIC	1Gb
Intel	Intel AXX4GBIOMOD2 Quad Port Gigabit Ethernet I/O Module	1Gb
Intel	Intel AXXGBIOMOD Dual Port Gigabit Ethernet I/O Module	1Gb

## Supported HP® Configurations

## Servers (HP)

Model	Description	Memory (Min/Max)	Disks (Min/Max)	CPU Chip Vendor / Model
ProLiant® DL180 G6 <sup>9</sup>	2 CPU Socket 2U Rack	2/192 GB	2/25	<ul style="list-style-type: none"> <li>▪ Intel Xeon 55XX Series</li> <li>▪ Intel Xeon 56XX Series</li> </ul>
ProLiant DL360 G5 <sup>10</sup>	2 CPU Socket 1U Rack	2/64 GB	2/4	<ul style="list-style-type: none"> <li>▪ Intel Xeon 51XX Series</li> <li>▪ Intel Xeon 52XX Series</li> <li>▪ Intel Xeon 53XX Series</li> <li>▪ Intel Xeon 54XX Series</li> </ul>
ProLiant DL380 G5 <sup>10</sup>	2 CPU Socket 2U Rack	2/64 GB	2/8	<ul style="list-style-type: none"> <li>▪ Intel Xeon 51XX Series</li> <li>▪ Intel Xeon 52XX Series</li> <li>▪ Intel Xeon 53XX Series</li> <li>▪ Intel Xeon 54XX Series</li> </ul>
ProLiant ML370 G5 <sup>10</sup>	2 CPU Socket Tower or 5U Rack	2/64 GB	2/16	<ul style="list-style-type: none"> <li>▪ Intel Xeon 51XX Series</li> <li>▪ Intel Xeon 52XX Series</li> <li>▪ Intel Xeon 53XX Series</li> <li>▪ Intel Xeon 54XX Series</li> </ul>
ProLiant DL360 G6 <sup>10</sup>	2 CPU Socket 1U Rack	2/128 GB	2/8 <sup>11</sup>	<ul style="list-style-type: none"> <li>▪ Intel Xeon 55XX Series</li> <li>▪ Intel Xeon 56XX Series</li> </ul>
ProLiant DL370 G6 <sup>10</sup>	2 CPU Socket 4U Rack	2/128 GB	2/24	<ul style="list-style-type: none"> <li>▪ Intel Xeon 55XX Series</li> <li>▪ Intel Xeon 56XX Series</li> </ul>
ProLiant DL380 G6 <sup>10</sup>	2 CPU Socket 2U Rack	2/128 GB	2/16 <sup>11</sup>	<ul style="list-style-type: none"> <li>▪ Intel Xeon 55XX Series</li> <li>▪ Intel Xeon 56XX Series</li> </ul>
ProLiant ML350 G6 <sup>10</sup>	2 CPU Socket Tower	2/128 GB	2/24	<ul style="list-style-type: none"> <li>▪ Intel Xeon 55XX Series</li> <li>▪ Intel Xeon 56XX Series</li> </ul>
ProLiant ML370 G6 <sup>10</sup>	2 CPU Socket Tower	2/128 GB	2/24	<ul style="list-style-type: none"> <li>▪ Intel Xeon 55XX Series</li> <li>▪ Intel Xeon 56XX Series</li> </ul>
ProLiant DL360 G7 <sup>12</sup>	2 CPU Socket 1U Rack	2/128 GB	2/8 <sup>11</sup>	<ul style="list-style-type: none"> <li>▪ Intel Xeon 55XX Series</li> <li>▪ Intel Xeon 56XX Series</li> </ul>
ProLiant DL380 G7 <sup>12</sup>	2 CPU Socket 2U Rack	2/128 GB	2/16 <sup>11</sup>	<ul style="list-style-type: none"> <li>▪ Intel Xeon 55XX Series</li> <li>▪ Intel Xeon 56XX Series</li> </ul>

<sup>9</sup> 1.35V で動作するメモリー-DIMM は選択できません。

<sup>10</sup> iLO2 firmware は version 1.79 以上を御利用ください。

<sup>11</sup> 内蔵 CD/DVD ドライブが無い場合、Avance の Install または VCD を作成する際に USB CD ドライブが必要です。

<sup>12</sup> iLO3 firmware は version 1.15 以上を御利用ください。

Storage Controllers (HP)

Controller Vendor	Storage Controller <sup>13</sup>	Restrictions/Comments
HP	P400 256 MB Cache w/ BBWC	
HP	P400 512 MB Cache w/ BBWC	
HP	P600 256 MB Cache w/ BBWC	
HP	P600 512 MB Cache w/ BBWC	
HP	P800 512 MB Cache w/ BBWC	
HP	P410i 256 MB Cache w/ BBWC	<ul style="list-style-type: none"> <li>Max 1 P410i controller per node. For larger configurations use SAS expanders or additional P600/P800 controllers.</li> <li>Firmware version 2.72b or later</li> </ul>
HP	P410i 512 MB Cache w/ BBWC	<ul style="list-style-type: none"> <li>Max 1 P410i controller per node. For larger configurations use SAS expanders or additional P600/P800 controllers.</li> <li>Firmware version 2.72b or later</li> </ul>
HP	P410i 1GB MB Cache w/ FBWC	<ul style="list-style-type: none"> <li>Max 1 P410i controller per node. For larger configurations use SAS expanders or additional P600/P800 controllers.</li> <li>Firmware version 2.72b or later</li> </ul>
HP	P410 512 MB Cache w/ BBWC	<ul style="list-style-type: none"> <li>Max 1 P410i controller per node. For larger configurations use SAS expanders or additional P600/P800 controllers.</li> <li>Firmware version 2.72b or later</li> </ul>
HP	P410 512 MB Cache w/ FBWC	<ul style="list-style-type: none"> <li>Max 1 P410 controller per node. For larger configurations use SAS expanders or additional P600/P800 controllers.</li> <li>Firmware version 2.72b or later</li> </ul>
HP	P410 1GB Cache w/ FBWC	<ul style="list-style-type: none"> <li>Max 1 P410 controller per node. For larger configurations use SAS expanders or additional P600/P800 controllers.</li> <li>Firmware version 2.72b or later</li> </ul>

<sup>13</sup> 全ての HP storage controllers は RAID 0, 1, 5, 6, 10 構成のみサポート。

## HP Network Controllers (HP)

Controller Vendor	Network Controller	Speed
HP	NC550SFP Dual Port 10GbE Server Adapter <sup>14</sup>	10Gb
Intel	Intel Ethernet Server Adapter x520-SR1 (E10G41BFSR) <sup>14</sup>	10Gb
Intel	Intel Ethernet Server Adapter x520 T2 (E10G42BT) <sup>14</sup>	10Gb
Intel	Intel Ethernet Server Adapter x520 DA2 (E10G42BTDA) <sup>14</sup>	10Gb
Broadcom	Embedded NetXtreme II 5708 Dual Port 1GbE NIC	1Gb
Broadcom	NetXtreme II 5709 Dual Port 1GbE NIC	1Gb
Broadcom	NetXtreme II 5709 Quad Port 1GbE NIC	1Gb
HP	Integrated NC373i Dual Port Gigabit NIC	1Gb
HP	Integrated NC382i Dual Port Gigabit NIC	1Gb
HP	Integrated NC375i Quad Port Gigabit NIC	1Gb
HP	NC360T Dual Port Gigabit NIC	1Gb
HP	NC364T Quad Port Gigabit NIC	1Gb
HP	NC382T Dual Port Gigabit NIC	1Gb
Intel	Intel Ethernet Server Adapter I350-T2	1Gb
Intel	Intel Ethernet Server Adapter I350-T4	1Gb
Intel	Intel PRO 1000PT Dual Port 1GbE NIC	1Gb
Intel	Intel PRO 1000PT Full Height Quad Port Server Adapter, Gigabit NIC	1Gb
Intel	Intel PRO 1000PT Low Profile Quad Port Server Adapter, Gigabit NIC	1Gb
Intel	Intel PRO 1000 ET Dual Port NIC	1Gb
Intel	Intel PRO 1000 ET Quad Port NIC	1Gb
Intel	Intel Gigabit ET2 Quad Port Server Adapter NIC	1Gb

## サポート対象外のファームウェア (HP)

Model/Device	Firmware Type	Blacklisted Revision
HP iLO2	System management	HP-iLO2-1.50
		HP-iLO2-1.70
		HP-iLO2-1.77
		HP-iLO2-1.78
HP iLO3	System management	HP-iLO3-1.05
		HP-iLO3-1.10
HP P410i	Storage Controller	HP-STOR-3.30-P410
HP P400 HP P400i	Storage Controller	HP-STOR-4.12-P400
		HP-STOR-5.20-P400
		HP-STOR-5.22-P400
		HP-STOR-5.26-P400
		HP-STOR-6.86-P400
		HP-STOR-7.08-P400

<sup>14</sup> SFP+モジュールとケーブルについてのサポート情報はメーカーの提供情報をご確認ください。

## Supported IBM® Configurations

### Servers (IBM)

Model	Description	Memory (Min/Max)	Disks (Min/Max)	CPU Chip Vendor / Model
System X3650 M3	2 CPU Socket, 2U Rack	2/144 GB	2/16	<ul style="list-style-type: none"> <li>▪ Intel Xeon 55XX Series</li> <li>▪ Intel Xeon 56XX Series</li> </ul>
System X3550 M3	2 CPU Socket, 1U rack	2/144 GB	2/8	<ul style="list-style-type: none"> <li>▪ Intel Xeon 55XX Series</li> <li>▪ Intel Xeon 56XX Series</li> </ul>
System X3500 M3	2 socket tower	2/192 GB	2/24 (2.5") 2/8 (3.5")	<ul style="list-style-type: none"> <li>▪ Intel Xeon 55XX Series</li> <li>▪ Intel Xeon 56XX Series</li> </ul>
System X3200 M3 <sup>15</sup>	1 socket tower	2/32 GB	2/8	<ul style="list-style-type: none"> <li>▪ Intel Xeon 34XX Series</li> </ul>

### Storage Controllers, Expanders, and Enclosures (IBM)

Controller Vendor	Storage Controller	Restrictions/Comments
IBM	IBM ServeRAID M5015	RAID 0, 1, 5, 6, 10 only
IBM	IBM ServeRAID M1015	RAID 0, 1, 5 only (RAID 10 <b>not</b> supported)

### Network Controllers (IBM)

Controller Vendor	Network Controller	Speed
IBM	Emulex 10Gb Dual-port Ethernet Adapter for IBM System x <sup>16</sup> (option 49Y7950)	10Gb
IBM	Emulex 10Gb Dual-port Ethernet Adapter for IBM System x <sup>16</sup> (option 49Y4250)	10Gb
Intel	Intel Ethernet Server Adapter I350-T2	1Gb
Intel	Intel Ethernet Server Adapter I350-T4	1Gb
Intel	Intel PRO 1000PT Dual Port 1GbE NIC	1Gb
Intel	Intel PRO 1000PT Full Height Quad Port Server Adapter, Gigabit NIC	1Gb
Intel	Intel PRO 1000PT Low Profile Quad Port Server Adapter, Gigabit NIC	1Gb
Intel	Intel PRO 1000 ET Dual Port NIC	1Gb
Intel	Intel PRO 1000 ET Quad Port NIC	1Gb
Intel	Intel Gigabit ET2 Quad Port Server Adapter NIC	1Gb
Broadcom	NetXtreme II 5709 Dual Port 1GbE NIC	1Gb
Broadcom	NetXtreme II 5709 Quad Port 1GbE NIC	1Gb

<sup>15</sup> Avance は **ServeRAID BR10iil SAS/SATA Controller** をサポートしません。IBM Redbook “ServeRAID-BR10iil SAS/SATA Controller v2 for IBM System x”を参照の上、物理マシンから取り外してください。このカードが接続されていると Avance のインストールができません。

<sup>16</sup> SFP+モジュールとケーブルについてのサポート情報はメーカーの提供情報をご確認ください。



## Supported ICO® Configurations

### Servers (ICO)

Model	Description	Memory (Min/Max)	Disks (Min/Max)	CPU Chip Vendor / Model
Xanthos HA 3501	2 CPU Socket, Intel Server Board S5520UR(R) 2U Rack Mount Passive Midplane 3.5 Inch Drives	2/96 GB	2/5	<ul style="list-style-type: none"> <li>▪ Intel Xeon 55XX Series</li> <li>▪ Intel Xeon 56XX Series</li> </ul>
Xanthos HA 2501 LXR	2 CPU Socket, Intel Server Board S5520UR(R) 2U Rack Mount Active Midplane 2.5 Inch Drives	2/96 GB	2/8	<ul style="list-style-type: none"> <li>▪ Intel Xeon 55XX Series</li> <li>▪ Intel Xeon 56XX Series</li> </ul>

### Storage Controllers, Expanders, and Enclosures (ICO)

Controller Vendor	Storage Controller	Restrictions/Comments
LSI	MegaRAID SAS 9260CV -4i	RAID 0, 1, 5, 6, 10 only
LSI	MegaRAID SAS 9260CV-8i	RAID 0, 1, 5, 6, 10 only
LSI	MegaRAID SAS 9260-8i	RAID 0, 1, 5, 6, 10 only
Intel	SROMBSASMP2 <sup>17</sup>	SAS Active Midplane-2
Intel	FALSASMP	3Gb/s Passive Midplane
Intel	FURASMP	6 Gb/s Passive Midplane

<sup>17</sup> ファームウェアのバージョンは 11.0.1-0036 以上

## Network Controllers (ICO)

Controller Vendor	Network Controller	Speed
Intel	Intel Ethernet Server Adapter x520-SR1 (E10G41BFSR) <sup>18</sup>	10Gb
Intel	Intel Ethernet Server Adapter x520 T2 (E10G42BT) <sup>18</sup>	10Gb
Intel	Intel Ethernet Server Adapter x520 DA2 (E10G42BTDA) <sup>18</sup>	10Gb
Intel	Intel Ethernet Server Adapter I350-T2	1Gb
Intel	Intel Ethernet Server Adapter I350-T4	1Gb
Intel	Intel PRO 1000PT Dual Port 1GbE NIC	1Gb
Intel	Intel PRO 1000PT Full Height Quad Port Server Adapter, Gigabit NIC	1Gb
Intel	Intel PRO 1000PT Low Profile Quad Port Server Adapter, Gigabit NIC	1Gb
Intel	Intel PRO 1000 ET Dual Port NIC	1Gb
Intel	Intel PRO 1000 ET Quad Port NIC	1Gb
Intel	Intel Gigabit ET2 Quad Port Server Adapter NIC	1Gb
Intel	Intel AXX4GBIOMOD2 Quad Port Gigabit Ethernet I/O Module	1Gb
Intel	Intel AXXGBIOMOD Dual Port Gigabit Ethernet I/O Module	1Gb

## サポート対象外のファームウェア (ICO)

Model/Device	Firmware Type	Blacklisted Revision
Intel SROMBSASMP2	Storage Controller	Intel-SROMBSASMP2-11.0.1-0022

<sup>18</sup> SFP+モジュールとケーブルについてのサポート情報はメーカーの提供情報をご確認ください。

## Supported Intel® Configurations

## Servers (Intel)

Model	Description	Memory (Min/Max)	Disks (Min/Max)	CPU Chip Vendor / Model
S1200KP based servers	1 CPU Socket, Intel Server Board S1200KP Pedestal Hot Swap Drives	2/16 GB	2/4	<ul style="list-style-type: none"> <li>Intel Xeon E3 12X5 Series<sup>19</sup></li> </ul>
R1304BTLSHBN	1 CPU Socket, Intel Server Board S1200BTL 1U Rack Mount Hot Swap Drives	2/32 GB	2/4	<ul style="list-style-type: none"> <li>Intel Xeon E3 1200 Series</li> </ul>
R1304BTLSFAN	1 CPU Socket, Intel Server Board S1200 BTL 1U Rack Mount Fixed Drives	2/32 GB	2/4	<ul style="list-style-type: none"> <li>Intel Xeon E3 1200 Series</li> </ul>
P4304BTLSHCN	1 CPU Socket Intel Server Board S1200BTL Pedestal Hot Swap Drives	2/32 GB	2/4	<ul style="list-style-type: none"> <li>Intel Xeon E3 1200 Series</li> </ul>
P4304BTLSFCN	1 CPU Socket Intel Server Board S1200BTL Pedestal Fixed Drives	2/32 GB	2/4	<ul style="list-style-type: none"> <li>Intel Xeon E3 1200 Series</li> </ul>
SR1625URSASR	2 CPU Socket, Intel Server Board S5520UR(R) 1U Rack Mount Active Midplane 2.5 Inch Drives	2/192 GB	2/8	<ul style="list-style-type: none"> <li>Intel Xeon 55XX Series</li> <li>Intel Xeon 56XX Series</li> </ul>
SR1625URR	2 CPU Socket, Intel Server Board S5520UR(R) 1U Rack Mount Passive Midplane 2.5 Inch Drives	2/192 GB	2/8	<ul style="list-style-type: none"> <li>Intel Xeon 55XX Series</li> <li>Intel Xeon 56XX Series</li> </ul>
SR2612URR	2 CPU Socket, Intel Server Board S5520UR(R) 2U Rack Mount SAS Expander Midplane 3.5 Inch Drives	2/192 GB	2/14	<ul style="list-style-type: none"> <li>Intel Xeon 55XX Series</li> <li>Intel Xeon 56XX Series</li> </ul>
SR2600URBRPR	2 CPU Socket, Intel Server Board S5520UR(R) 2U Rack Mount Passive Midplane 3.5 Inch Drives	2/192 GB	2/6	<ul style="list-style-type: none"> <li>Intel Xeon 55XX Series</li> <li>Intel Xeon 56XX Series</li> </ul>
SR2600URLXR	2 CPU Socket, Intel Server Board S5520UR(R) 2U Rack Mount Active Midplane 3.5 Inch Drives	2/192 GB	2/6	<ul style="list-style-type: none"> <li>Intel Xeon 55XX Series</li> <li>Intel Xeon 56XX Series</li> </ul>
SR2625URLXR	2 CPU Socket, Intel Server Board S5520UR(R) 2U Rack Mount Active Midplane 2.5 Inch Drives	2/192 GB	2/8	<ul style="list-style-type: none"> <li>Intel Xeon 55XX Series</li> <li>Intel Xeon 56XX Series</li> </ul>

<sup>19</sup> Xeon E3-12X0 プロセッサ (without embedded video) はサポートしません。

## Stratus® Avance Compatibility Matrix R2.1.3

Model	Description	Memory (Min/Max)	Disks (Min/Max)	CPU Chip Vendor / Model
SC5600BRP	2 CPU Socket Intel Server Board S5520HC(T) Pedestal 3.5 Inch Drives	2/192 GB	2/6	<ul style="list-style-type: none"> <li>▪ Intel Xeon 55XX Series</li> <li>▪ Intel Xeon 56XX Series</li> </ul>
SC5600LX	2 CPU Socket Intel Server Board S5520HC(R)(T) Pedestal 3.5 Inch Drives	2/192 GB	2/10	<ul style="list-style-type: none"> <li>▪ Intel Xeon 55XX Series</li> <li>▪ Intel Xeon 56XX Series</li> </ul>

### Storage Controllers, Expanders, and Enclosures (Intel)

Controller Vendor	Storage Controller	Restrictions/Comments
LSI	MegaRAID SAS 9260CV -4i	RAID 0, 1, 5, 6, 10 only
LSI	MegaRAID SAS 9260CV-8i	RAID 0, 1, 5, 6, 10 only
LSI	MegaRAID SAS 9260-4i	RAID 0, 1, 5, 6, 10 only
LSI	MegaRAID SAS 9260-8i	RAID 0, 1, 5, 6, 10 only
LSI	MegaRAID SAS 9260DE-8i	RAID 0, 1, 5, 6, 10 only
Intel	Integrated on board RST RAID Module	<b>S1200KP only</b> , RAID 0 only, AHCI mode only
Intel	Integrated Server RAID Module RMS2AF040	RAID 0, 1, 5 only (RAID 10 <b>not</b> supported)
Intel	RAID Controller RS2BL040	RAID 0, 1, 5, 6, 10 only
Intel	RAID Controller RS2BL080	RAID 0, 1, 5, 6, 10 only
Intel	RAID Controller RS2BL080 DE	RAID 0, 1, 5, 6, 10 only
Intel	RES2SV240	SAS Expander
Intel	AXX4DRV3GEXP/ AXX4DRV3G	Storage Enclosure. Min Firmware rev 2.12
Intel	AXX6DRV3GEXP/ AXX6DRV3G	Storage Enclosure. Min Firmware rev 2.12
Intel	SROMBSASMP2 <sup>20</sup>	SAS Active Midplane-2
Intel	FALSASMP	3Gb/s Passive Midplane
Intel	FURASMP	6 Gb/s Passive Midplane

<sup>20</sup> ファームウェアのバージョンは 11.0.1-0036 以上

## Network Controllers (Intel)

Controller Vender	Network Controller	Speed
Intel	Intel Ethernet Server Adapter x520-SR1 (E10G41BFSR) <sup>21</sup>	10Gb
Intel	Intel Ethernet Server Adapter x520 T2 (E10G42BT) <sup>21</sup>	10Gb
Intel	Intel Ethernet Server Adapter x520 DA2 (E10G42BTDA) <sup>21</sup>	10Gb
Intel	Intel Ethernet Server Adapter I350-T2	1Gb
Intel	Intel Ethernet Server Adapter I350-T4	1Gb
Intel	Intel PRO 1000PT Dual Port 1GbE NIC	1Gb
Intel	Intel PRO 1000PT Full Height Quad Port Server Adapter, Gigabit NIC	1Gb
Intel	Intel PRO 1000PT Low Profile Quad Port Server Adapter, Gigabit NIC	1Gb
Intel	Intel PRO 1000 ET Dual Port NIC	1Gb
Intel	Intel PRO 1000 ET Quad Port NIC	1Gb
Intel	Intel Gigabit ET2 Quad Port Server Adapter NIC	1Gb
Intel	Intel AXX4GBIOMOD2 Quad Port Gigabit Ethernet I/O Module	1Gb
Intel	Intel AXXGBIOMOD Dual Port Gigabit Ethernet I/O Module	1Gb

## サポート対象外のファームウェア (Intel)

Model/Device	Firmware Type	Blacklisted Revision
Intel SROMBSASMP2	Storage Controller	Intel-SROMBSASMP2-11.0.1-0022

<sup>21</sup> SFP+モジュールとケーブルについてのサポート情報はメーカーの提供情報をご確認ください。

## Supported Lynx® Configurations

### Servers (Lynx)

Model	Description	Memory (Min/Max)	Disks (Min/Max)	CPU Chip Vendor / Model
<b>SAR248A310RH</b> <b>Lynx CALLEO Application Server R248 HA</b>	2 CPU Socket, Intel Server Board S5520UR(R) 2U Rack Mount Passive Midplane 3.5 Inch Drives	2/96 GB	2/6	<ul style="list-style-type: none"> <li>▪ Intel Xeon 55XX Series</li> <li>▪ Intel Xeon 56XX Series</li> </ul>
<b>SAR248A310RH</b> <b>Lynx CALLEO Application Server R248 HA</b>	2 CPU Socket Intel Server Board S5520HC(T) Pedestal 3.5 Inch Drives	2/96 GB	2/10	<ul style="list-style-type: none"> <li>▪ Intel Xeon 55XX Series</li> <li>▪ Intel Xeon 56XX Series</li> </ul>

### Storage Controllers, Expanders, and Enclosures (Lynx)

Controller Vendor	Storage Controller	Restrictions/Comments
Intel	RAID Controller RS2BL080	RAID 0, 1, 5, 6, 10 only
Intel	FURASMP	6 Gb/s Passive Midplane
Intel	FALSASMP	3Gb/s Passive Midplane
Intel	AXX4DRV3GEXP	Storage Enclosure. Min Firmware rev 2.12
Intel	AXX6DRV3GEXP	Storage Enclosure. Min Firmware rev 2.12

### Network Controllers (Lynx)

Controller Vendor	Network Controller	Speed
Intel	Intel Ethernet Server Adapter x520-SR1 (E10G41BFSR) <sup>22</sup>	10Gb
Intel	Intel Ethernet Server Adapter x520 T2 (E10G42BT) <sup>22</sup>	10Gb
Intel	Intel Ethernet Server Adapter x520 DA2 (E10G42BTDA) <sup>22</sup>	10Gb
Intel	Intel Ethernet Server Adapter I350-T2	1Gb
Intel	Intel Ethernet Server Adapter I350-T4	1Gb
Intel	Intel PRO 1000PT Dual Port 1GbE NIC	1Gb
Intel	Intel PRO 1000PT Full Height Quad Port Server Adapter, Gigabit NIC	1Gb
Intel	Intel PRO 1000PT Low Profile Quad Port Server Adapter, Gigabit NIC	1Gb
Intel	Intel PRO 1000 ET Dual Port NIC	1Gb
Intel	Intel PRO 1000 ET Quad Port NIC	1Gb
Intel	Intel Gigabit ET2 Quad Port Server Adapter NIC	1Gb
Intel	Intel AXX4GBIOMOD2 Quad Port Gigabit Ethernet I/O Module	1Gb
Intel	Intel AXXGBIOMOD Dual Port Gigabit Ethernet I/O Module	1Gb

<sup>22</sup> SFP+モジュールとケーブルについてのサポート情報はメーカーの提供情報をご確認ください。



## Supported primeLine Solutions GmbH® Configurations

### Servers (primeLine Solutions GmbH)

Model	Description	Memory (Min/Max)	Disks (Min/Max)	CPU Chip Vendor / Model
<b>egino®</b> <b>i-Series HA-I3041I-C204</b>	1 CPU Socket Intel Server Board S1200BTL 1U Rack mount Hot Swap Drives	2/16 GB	2/4	▪ Intel Xeon E3 1200 Series
<b>egino®</b> <b>i-Series HA-T3041I-C204</b>	1 CPU Socket, P4304BTLSHCN Intel Server Board S1200BTL Pedestal Hot Swap Drives	2/16 GB	2/4	▪ Intel Xeon E3 1200 Series
<b>egino</b> <b>i-Series HA-2082i-5520</b>	2 CPU Socket, Intel Server Board S5520UR(R) 2U Rack Mount Active Midplane 2.5 Inch Drives	2/96 GB	2/8	▪ Intel Xeon 55XX Series ▪ Intel Xeon 56XX Series

### Storage Controllers, Expanders, and Enclosures (primeLine Solutions GmbH)

Controller Vendor	Storage Controller	Restrictions/Comments
<b>LSI</b>	MegaRAID SAS 9260-4i	RAID 0, 1, 5, 6, 10 only
<b>Intel</b>	SROMBSASMP2 <sup>23</sup>	SAS Active Midplane-2

### Network Controllers (primeLine Solutions GmbH)

Controller Vendor	Network Controller	Speed
<b>Intel</b>	Intel Ethernet Server Adapter x520-SR1 (E10G41BFSR) <sup>24</sup>	10Gb
<b>Intel</b>	Intel Ethernet Server Adapter x520 T2 (E10G42BT) <sup>24</sup>	10Gb
<b>Intel</b>	Intel Ethernet Server Adapter x520 DA2 (E10G42BTDA) <sup>24</sup>	10Gb
<b>Intel</b>	Intel Ethernet Server Adapter I350-T2	1Gb
<b>Intel</b>	Intel Ethernet Server Adapter I350-T4	1Gb
<b>Intel</b>	Intel PRO 1000PT Dual Port 1GbE NIC	1Gb
<b>Intel</b>	Intel PRO 1000PT Full Height Quad Port Server Adapter, Gigabit NIC	1Gb
<b>Intel</b>	Intel PRO 1000PT Low Profile Quad Port Server Adapter, Gigabit NIC	1Gb
<b>Intel</b>	Intel PRO 1000 ET Dual Port NIC	1Gb
<b>Intel</b>	Intel PRO 1000 ET Quad Port NIC	1Gb
<b>Intel</b>	Intel Gigabit ET2 Quad Port Server Adapter NIC	1Gb
<b>Intel</b>	Intel AXX4GBIOMOD2 Quad Port Gigabit Ethernet I/O Module	1Gb
<b>Intel</b>	Intel AXXGBIOMOD Dual Port Gigabit Ethernet I/O Module	1Gb

<sup>23</sup> ファームウェアのバージョンは 11.0.1-0036 以上

<sup>24</sup> SFP+モジュールとケーブルについてのサポート情報はメーカーの提供情報をご確認ください。

サポート対象外のファームウェア (primeLine Solutions GmbH)





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Model/Device	Firmware Type	Blacklisted Revision
Intel SROMBSASMP2	Storage Controller	Intel-SROMBSASMP2-11.0.1-0022



## Supported Seneca® Configurations

### Servers (Seneca)

Model	Description	Memory (Min/Max)	Disks (Min/Max)	CPU Chip Vendor / Model
Nexlink® IP-2UUR2612 	2 CPU Socket, Intel Server Board S5520UR(R) 2U Rack Mount SAS Expander Midplane 3.5 Inch Drives	2/96 GB	2/14	<ul style="list-style-type: none"> <li>▪ Intel Xeon 55XX Series</li> <li>▪ Intel Xeon 56XX Series</li> </ul>
Nexlink SR2600URBRPR 	2 CPU Socket, Intel Server Board S5520UR(R) 2U Rack Mount Passive Midplane 3.5 Inch Drives	2/96 GB	2/6	<ul style="list-style-type: none"> <li>▪ Intel Xeon 55XX Series</li> <li>▪ Intel Xeon 56XX Series</li> </ul>
Nexlink IP-2UUR2625 	2 CPU Socket, Intel Server Board S5520UR(R) 2U Rack Mount Active Midplane 2.5 Inch Drives	2/96 GB	2/8	<ul style="list-style-type: none"> <li>▪ Intel Xeon 55XX Series</li> <li>▪ Intel Xeon 56XX Series</li> </ul>
Nexlink IP-2UUR2600 	2 CPU Socket, 2U Rack Mount Passive Midplane 3.5 Inch Drives	2/96 GB	2/6	<ul style="list-style-type: none"> <li>▪ Intel Xeon 55XX Series</li> <li>▪ Intel Xeon 56XX Series</li> </ul>

### Storage Controllers (Seneca)

Controller Vendor	Storage Controller	Restrictions/Comments
LSI	MegaRAID SAS 9260CV -4i	RAID 0, 1, 5, 6, 10 only
LSI	MegaRAID SAS 9260CV-8i	RAID 0, 1, 5, 6, 10 only
LSI	MegaRAID SAS 9260-4i	RAID 0, 1, 5, 6, 10 only
LSI	MegaRAID SAS 9260-8i	RAID 0, 1, 5, 6, 10 only
LSI	MegaRAID SAS 9260DE-8i	RAID 0, 1, 5, 6, 10 only
Intel	RAID Controller RS2BL080	RAID 0, 1, 5, 6, 10 only
Intel	RAID Controller RS2BL080 DE	RAID 0, 1, 5, 6, 10 only
Intel	RES2SV240	SAS Expander
Intel	SROMBSASMP2 <sup>25</sup>	SAS Active Midplane-2
Intel	FALSASMP	3Gb/s Passive Midplane
Intel	FURASMP	6 Gb/s Passive Midplane

<sup>25</sup> ファームウェアのバージョンは 11.0.1-0036 以上

## Network Controllers (Seneca)

Controller Vendor	Network Controller	Speed
Intel	Intel Ethernet Server Adapter x520-SR1 (E10G41BFSR) <sup>26</sup>	10Gb
Intel	Intel Ethernet Server Adapter x520 T2 (E10G42BT) <sup>26</sup>	10Gb
Intel	Intel Ethernet Server Adapter x520 DA2 (E10G42BTDA) <sup>26</sup>	10Gb
Intel	Intel Ethernet Server Adapter I350-T2	1Gb
Intel	Intel Ethernet Server Adapter I350-T4	1Gb
Intel	Intel PRO 1000PT Dual Port 1GbE NIC	1Gb
Intel	Intel PRO 1000PT Full Height Quad Port Server Adapter, Gigabit NIC	1Gb
Intel	Intel PRO 1000PT Low Profile Quad Port Server Adapter, Gigabit NIC	1Gb
Intel	Intel PRO 1000 ET Dual Port NIC	1Gb
Intel	Intel PRO 1000 ET Quad Port NIC	1Gb
Intel	Intel Gigabit ET2 Quad Port Server Adapter NIC	1Gb
Intel	Intel AXX4GBIOMOD2 Quad Port Gigabit Ethernet I/O Module	1Gb
Intel	Intel AXXGBIOMOD Dual Port Gigabit Ethernet I/O Module	1Gb

## サポート対象外のファームウェア (Seneca)

Model/Device	Firmware Type	Blacklisted Revision
Intel SROMBSASMP2	Storage Controller	Intel-SROMBSASMP2-11.0.1-0022

<sup>26</sup> SFP+モジュールとケーブルについてのサポート情報はメーカーの提供情報をご確認ください。



## Supported Tarox® Configurations

### Servers (Tarox)

Model	Description	Memory (Min/Max)	Disks (Min/Max)	CPU Chip Vendor / Model
ParX µServer G4	1 CPU Socket, Intel Server Board S1200KP Pedestal Hot Swap Drives	2/16 GB	2/4	<ul style="list-style-type: none"> <li>Intel Xeon E3 12X5 Series<sup>27</sup></li> </ul>
ParX R104i g4	1 CPU Socket, Intel Server Board S1200BTL 1U Rack Mount Hot Swap Drives	2/32 GB	2/4	<ul style="list-style-type: none"> <li>Intel Xeon E3 1200 Series</li> </ul>
ParX T5100i G3	2 CPU Socket Intel Server Board S5520UR Pedestal or Rack Mount 3.5 Inch Drives	2/192 GB	2/10	<ul style="list-style-type: none"> <li>Intel Xeon 55XX Series</li> <li>Intel Xeon 56XX Series</li> </ul>
ParX R2080i G3	2 CPU Socket, Intel Server Board S5520UR 2U Rack Mount Active Midplane 2.5 Inch Drives	2/192 GB	2/8	<ul style="list-style-type: none"> <li>Intel Xeon 55XX Series</li> <li>Intel Xeon 56XX Series</li> </ul>
ParX R2060i G3	2 CPU Socket, Intel Server Board S5520UR 2U Rack Mount Passive Midplane 3.5 Inch Drives	2/192 GB	2/6	<ul style="list-style-type: none"> <li>Intel Xeon 55XX Series</li> <li>Intel Xeon 56XX Series</li> </ul>
ParX 5000R G3	2 CPU Socket Intel Server Board S5520HC Pedestal 3.5 Inch Drives	2/96 GB	2/10	<ul style="list-style-type: none"> <li>Intel Xeon 55XX Series</li> <li>Intel Xeon 56XX Series</li> </ul>
ParX 2500R G3	2 CPU Socket, Intel Server Board S5520UR 2U Rack Mount Passive Midplane 3.5 Inch Drives	2/96 GB	2/6	<ul style="list-style-type: none"> <li>Intel Xeon 55XX Series</li> <li>Intel Xeon 56XX Series</li> </ul>
ParX 700R	2 CPU Socket, Intel Server Board S5520UR Rack Mount Passive Midplane 3.5 Inch Drives	2/96 GB	2/6	<ul style="list-style-type: none"> <li>Intel Xeon 55XX Series</li> <li>Intel Xeon 56XX Series</li> </ul>
ParX 700	2 CPU Socket, Intel Server Board S5520HC Pedestal 3.5 Inch Drives	2/96 GB	2/6	<ul style="list-style-type: none"> <li>Intel Xeon 55XX Series</li> <li>Intel Xeon 56XX Series</li> </ul>

<sup>27</sup> Xeon E3-12X0 プロセッサ (without embedded video) はサポートしません。

## Storage Controllers (Tarox)

Controller Vendor	Storage Controller	Restrictions/Comments
LSI	MegaRAID SAS 9260CV -4i	RAID 0, 1, 5, 6, 10 only
LSI	MegaRAID SAS 9260CV-8i	RAID 0, 1, 5, 6, 10 only
LSI	MegaRAID SAS 9260-4i	RAID 0, 1, 5, 6, 10 only
LSI	MegaRAID SAS 9260-8i	RAID 0, 1, 5, 6, 10 only
LSI	MegaRAID SAS 9260DE-8i	RAID 0, 1, 5, 6, 10 only
Intel	Integrated Server RAID Module RMS2AF040	RAID 0, 1, 5 only (RAID 10 <b>not</b> supported)
Intel	RAID Controller RS2BL080	RAID 0, 1, 5, 6, 10 only
Intel	RAID Controller RS2BL080 DE	RAID 0, 1, 5, 6, 10 only
Intel	RES2SV240	SAS Expander
Intel	AXX4DRV3GEXP/ AXX4DRV3G	Storage Enclosure. Min Firmware rev 2.12
Intel	AXX6DRV3GEXP/ AXX6DRV3G	Storage Enclosure. Min Firmware rev 2.12
Intel	SROMBSASMP2 <sup>28</sup>	SAS Active Midplane-2
Intel	FALSASMP	3Gb/s Passive Midplane
Intel	FURASMP	6 Gb/s Passive Midplane

## Network Controllers (Tarox)

Controller Vendor	Network Controller	Speed
Intel	Intel Ethernet Server Adapter x520-SR1 (E10G41BFSR) <sup>29</sup>	10Gb
Intel	Intel Ethernet Server Adapter x520 T2 (E10G42BT) <sup>29</sup>	10Gb
Intel	Intel Ethernet Server Adapter x520 DA2 (E10G42BTDA) <sup>29</sup>	10Gb
Intel	Intel Ethernet Server Adapter I350-T2	1Gb
Intel	Intel Ethernet Server Adapter I350-T4	1Gb
Intel	Intel PRO 1000PT Dual Port 1GbE NIC	1Gb
Intel	Intel PRO 1000PT Full Height Quad Port Server Adapter, Gigabit NIC	1Gb
Intel	Intel PRO 1000PT Low Profile Quad Port Server Adapter, Gigabit NIC	1Gb
Intel	Intel PRO 1000 ET Dual Port NIC	1Gb
Intel	Intel PRO 1000 ET Quad Port NIC	1Gb
Intel	Intel Gigabit ET2 Quad Port Server Adapter NIC	1Gb
Intel	Intel AXX4GBIOMOD2 Quad Port Gigabit Ethernet I/O Module	1Gb
Intel	Intel AXXGBIOMOD Dual Port Gigabit Ethernet I/O Module	1Gb

## サポート対象外のファームウェア (Tarox)

Model/Device	Firmware Type	Blacklisted Revision
Intel SROMBSASMP2	Storage Controller	Intel-SROMBSASMP2-11.0.1-0022

<sup>28</sup> ファームウェアのバージョンは 11.0.1-0036 以上

<sup>29</sup> SFP+モジュールとケーブルについてのサポート情報はメーカーの提供情報をご確認ください。



## Supported Thomas-Krenn.AG® Configurations

### Servers (Thomas-Krenn)

Model	Description	Memory (Min/Max)	Disks (Min/Max)	CPU Chip Vendor / Model
<b>THOMAS-KRENN SC5600 AVANCE HA-CLUSTER</b>	2 CPU Socket, Intel server chassis SC5600LX Intel Server Board S5520HC(T) Pedestal Active Midplane 3.5 Inch Drives	2/96 GB	2/6/10	<ul style="list-style-type: none"> <li>▪ Intel Xeon 55XX Series</li> <li>▪ Intel Xeon 56XX Series</li> </ul>
<b>THOMAS-KRENN SR2625 AVANCE HA-CLUSTER</b>	2 CPU Socket Intel server chassis R2625URLXR Intel Server Board S5520UR(R) 2U Rack Mount Active Midplane 2.5 Inch Drives	2/96 GB	2/8	<ul style="list-style-type: none"> <li>▪ Intel Xeon 55XX Series</li> <li>▪ Intel Xeon 56XX Series</li> </ul>

### Storage Controllers, Expanders, and Enclosures (Thomas-Krenn)

Controller Vendor	Storage Controller	Restrictions
<b>LSI</b>	MegaRAID SAS 9260CV -4i	RAID 0, 1, 5, 6, 10 only
<b>LSI</b>	MegaRAID SAS 9260CV-8i	RAID 0, 1, 5, 6, 10 only
<b>LSI</b>	MegaRAID SAS 9260-4i	RAID 0, 1, 5, 6, 10 only
<b>Intel</b>	AXX4DRV3GEXP/ AXX4DRV3G	Storage Enclosure. Min Firmware rev 2.12
<b>Intel</b>	AXX6DRV3GEXP/ AXX6DRV3G	Storage Enclosure. Min Firmware rev 2.12
<b>Intel</b>	SROMBSASMP2 <sup>30</sup>	SAS Active Midplane-2

<sup>30</sup> ファームウェアのバージョンは 11.0.1-0036 以上

## Network Controllers (Thomas-Krenn)

Controller Vender	Network Controller	Speed
Intel	Intel Ethernet Server Adapter x520-SR1 (E10G41BFSR) <sup>31</sup>	10Gb
Intel	Intel Ethernet Server Adapter x520 T2 (E10G42BT) <sup>31</sup>	10Gb
Intel	Intel Ethernet Server Adapter x520 DA2 (E10G42BTDA) <sup>31</sup>	10Gb
Intel	Intel Ethernet Server Adapter I350-T2	1Gb
Intel	Intel Ethernet Server Adapter I350-T4	1Gb
Intel	Intel PRO 1000PT Dual Port 1GbE NIC (E1G44ET2BLK)	1Gb
Intel	Intel Gigabit ET2 Quad Port Server Adapter NIC (EXPI9402PTBLK)	1Gb
Intel	Intel AXX4GBIOMOD2 Quad Port Gigabit Ethernet I/O Module	1Gb
Intel	Intel AXXGBIOMOD Dual Port Gigabit Ethernet I/O Module	1Gb

## サポート対象外のファームウェア (Thomas-Krenn)






Model/Device	Firmware Type	Blacklisted Revision
Intel SROMBSASMP2	Storage Controller	Intel-SROMBSASMP2-11.0.1-0022

<sup>31</sup> SFP+モジュールとケーブルについてのサポート情報はメーカーの提供情報をご確認ください。

# WORTMANN AG | IT – Made in Germany

## Supported Wortmann® Configurations

### Servers (Wortmann)

Model	Description	Memory (Min/Max)	Disks (Min/Max)	CPU Chip Vendor / Model
<b>Terra Mini Server</b>  <small>Qualität aus Deutschland</small>	1 CPU Socket, Intel Server Board S1200KP Pedestal Hot Swap Drives	2/16 GB	2/4	<ul style="list-style-type: none"> <li>Intel Xeon E3 12X5 Series<sup>32</sup></li> </ul>
<b>Terra Server 4030 SAS</b>  <small>Qualität aus Deutschland</small>	1CPU Socket Intel Server Board S1200BTL Pedestal 3.5 Inch Drives	2/32 GB	2/8	<ul style="list-style-type: none"> <li>Intel Xeon E3-12XX Series</li> </ul>
<b>Terra Server 6120</b>  <small>Qualität aus Deutschland</small>	2 CPU Socket Intel Server Board S5520UR 1U Rack Mount Active Midplane 2.5 Inch Drives	2/96 GB	2/8	<ul style="list-style-type: none"> <li>Intel Xeon 55XX Series</li> <li>Intel Xeon 56XX Series</li> </ul>
<b>Terra Server 6220</b>  <small>Qualität aus Deutschland</small>	2 CPU Socket Intel Server Board S5520UR 2U Rack Mount Passive Midplane 3.5 Inch Drives	2/96 GB	2/6	<ul style="list-style-type: none"> <li>Intel Xeon 55XX Series</li> <li>Intel Xeon 56XX Series</li> </ul>
<b>Terra Server 6420</b>  <small>Qualität aus Deutschland</small>	2 CPU Socket Intel Server Board S5520HC Pedestal Expansion backplane 3.5 Inch Drives	2/96 GB	2/10	<ul style="list-style-type: none"> <li>Intel Xeon 55XX Series</li> <li>Intel Xeon 56XX Series</li> </ul>

<sup>32</sup> Xeon E3-12X0 プロセッサ (without embedded video) はサポートしません。

## Storage Controllers (Wortmann)

Controller Vendor	Storage Controller	Restrictions
LSI	MegaRAID SAS 9260CV -4i	RAID 0, 1, 5, 6, 10 only
LSI	MegaRAID SAS 9260CV-8i	RAID 0, 1, 5, 6, 10 only
LSI	MegaRAID SAS 9260-4i	RAID 0, 1, 5, 6, 10 only
LSI	MegaRAID SAS 9260-8i	RAID 0, 1, 5, 6, 10 only
LSI	MegaRAID SAS 9260DE-8i	RAID 0, 1, 5, 6, 10 only
Intel	RAID Controller RS2BL080	RAID 0, 1, 5, 6, 10 only
Intel	RAID Controller RS2BL080 DE	RAID 0, 1, 5, 6, 10 only
Intel	RES2SV240	SAS Expander
Intel	AXX4DRV3GEXP/ AXX4DRV3G	Storage Enclosure. Min Firmware rev 2.12
Intel	AXX6DRV3GEXP/ AXX6DRV3G	Storage Enclosure. Min Firmware rev 2.12
Intel	SROMBSASMP2 <sup>33</sup>	SAS Active Midplane-2
Intel	FALSASMP	3Gb/s Passive Midplane
Intel	FURASMP	6 Gb/s Passive Midplane

## Network Controllers (Wortmann)

Controller Vendor	Network Controller	Speed
Intel	Intel Ethernet Server Adapter x520-SR1 (E10G41BFSR) <sup>34</sup>	10Gb
Intel	Intel Ethernet Server Adapter x520 T2 (E10G42BT) <sup>34</sup>	10Gb
Intel	Intel Ethernet Server Adapter x520 DA2 (E10G42BTDA) <sup>34</sup>	10Gb
Intel	Intel Ethernet Server Adapter I350-T2	1Gb
Intel	Intel Ethernet Server Adapter I350-T4	1Gb
Intel	Intel PRO 1000PT Dual Port 1GbE NIC	1Gb
Intel	Intel PRO 1000PT Full Height Quad Port Server Adapter, Gigabit NIC	1Gb
Intel	Intel PRO 1000PT Low Profile Quad Port Server Adapter, Gigabit NIC	1Gb
Intel	Intel PRO 1000 ET Dual Port NIC	1Gb
Intel	Intel PRO 1000 ET Quad Port NIC	1Gb
Intel	Intel Gigabit ET2 Quad Port Server Adapter NIC	1Gb
Intel	Intel AXX4GBIOMOD2 Quad Port Gigabit Ethernet I/O Module	1Gb
Intel	Intel AXXGBIOMOD Dual Port Gigabit Ethernet I/O Module	1Gb

## サポート対象外のファームウェア (Wortmann)

Model/Device	Firmware Type	Blacklisted Revision
Intel SROMBSASMP2	Storage Controller	Intel-SROMBSASMP2-11.0.1-0022

<sup>33</sup> ファームウェアのバージョンは 11.0.1-0036 以上

<sup>34</sup> SFP+モジュールとケーブルについてのサポート情報はメーカーの提供情報をご確認ください。

## Guest Operating Systems

Vendor	OS Release	Bits
Microsoft	Windows 7	32/64
Microsoft	Windows 2000 Server SP4	32
Microsoft	Windows XP SP3	32
Microsoft	Windows Server 2003, Web, Small Business, Standard, Enterprise, Datacenter, SP1, SP2, R2	32
Microsoft	Windows Server 2003, Web, Small Business, Standard, Enterprise, Datacenter, SP2	64
Microsoft	Windows Server 2008, Web, Small Business, Standard, Enterprise, Datacenter, SP1, SP2	32/64
Microsoft	Windows Server 2008 R2, Web, Small Business, Standard, Enterprise, Datacenter, SP1	64
Microsoft	Windows Small Business Server 2011 Standard, Essential, Premium Add-on	64
RedHat	Red hat Enterprise Linux 4.6, 4.7, 4.8, WS, AS, ES	32
RedHat	Red Hat Enterprise Linux 5.1, 5.2, 5.3, 5.4, 5.5, 5.6, WS, AS, ES <sup>35</sup>	32/64
CentOS	CentOS Linux 4.6, 4.7, 4.8	32
CentOS	CentOS 5.1, 5.2, 5.3, 5.4, 5.5, 5.6 <sup>35</sup>	32/64

## Internet Browsers

Microsoft Internet Explorer™ IE9
Microsoft Internet Explorer™ IE8
Mozilla Firefox 3.6+
Google Chrome 10.0+

<sup>35</sup> R2.1.3.11 以降の Avance リリースにおいてはバージョン 5.4 以降の Red Hat および CentOS への Linux カーネル・パッチの適応が不要となりました。(両 OS の標準カーネルで Avance が完全に機能します。)

## 構成上の注意点

### 物理サーバの構成制限

Physical Device	Minimum	Maximum (試験済)	(理論値)	Notes
Number CPU Sockets per Physical Machine	1	2	No Practical limit	
Number of Cores per CPU Socket	2	6	No Practical limit	
Physical Memory	2 GBytes	64 GBytes	128 GBytes	
Internal Disk Count per Physical Machine	2	24	No Limit	Avance の HOST OS をミラーリングする為、サーバあたり最低 2 本のディスクドライブが必要です。HOST OS と違いゲスト OS はサーバ内で二重化はされません。サーバ間で二重化されます。
Internal Disk Speed	7.2k RPM	15k RPM	No Limit	低速/品質の低いドライブは推奨されません。
Logical Volume Size (Avance Boot Volumes)		5TB	No Limit	
Logical Data Volume Size (Non- Boot Volumes)		5TB	No Limit	
Private Link ENET Ports	1	1	1	
Sync Link ENET Ports	0	2	2	10GbE NIC はノード間のデータ同期のみサポートします。
Business ENET Ports	1	11	No Limit	10G のコネクションはビジネスリンクをサポートしません。

仮想サーバの構成制限

Virtual Device	Minimum	Maximum (試験済)	(理論値)
VM Boot Volume Size, Linux or Windows	Specified by OS	2 TB	2 TB
VM Data Volume Size, Linux	Specified by OS	4 TB	Specified by OS
VM Data Volume Size, Windows 2008, 2008 R2, Windows 7	Specified by OS	4 TB	Specified by OS
VM Data Volume Size, Windows XP, 2000, 2003	Specified by OS	2 TB	2 TB
仮想サーバ当りの仮想 CPU 数	1	8	8
仮想サーバ当りのメモリ(32 bit PAE なし)	750 MB	4 GB	4 GB
仮想サーバ当りのメモリ(32 bit PAE)	750 MB	32 GB	32 GB
仮想サーバ当りのメモリ(64 bit)	750 MB	32 GB	32 GB
仮想サーバ当りの仮想 Disk (Volumes) (Linux)	1	7	8
仮想サーバ当りの仮想 Disk (Volumes) (Windows)	1	7	7
仮想サーバ当りの仮想 LAN(Windows)	1	5	7
仮想サーバ当りの仮想 LAN(VIFs) (Linux)	1	3	7
Avance で管理できる VCD と Volume の総数		62	62
仮想サーバの最大数 <sup>36</sup>	1	16	32
仮想ネットワーク(ビジネスネットワーク)数		16	64
Avance Foundation License– Maximum running VMs <sup>37</sup>	NA	2	2
Avance Foundation License – Maximum CPUs per system <sup>38</sup>	'NA	8	8
Avance Foundation License – Maximum total VCPUs used by all VMs	'NA	6	8
Avance Foundation License – Maximum memory per system <sup>39</sup>	NA	8 GB	8 GB
Avance Foundation License – Maximum memory for all VMs	NA	8 GB	8 GB

<sup>36</sup> 仮想サーバに割り当てる最大 VCPU は、(cores \* hyperthreads/core) – 2 を推奨しています。

<sup>37</sup> Additional VMs may be created and stopped but VM creation is blocked if there are 2 VMs running already.

<sup>38</sup> Additional CPUs will not be utilized but Avance will still operate

<sup>39</sup> Additional memory will not be utilized but Avance will still operate

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