

Legacy PC System Configurations Info.

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Pyramix 12.x / Ovation 8.x / VCube 8.x

MassCore Systems

Motherboard	BIOS	CPU	RAM Type	Recommended RAM	Video In Timeline Use	Windows OS	Pyramix MassCore	Ovation MassCore	VCube LE /XE/SE
Asrock Z390MPro4	4.10	i5-8400(2.8GHz) i5-9400/9400F (2.9GHz) i7-8700(3.2GHz) i7-9700/9700F (3.0GHz)	DDR4	8 GB	NVidia GT1030/730 NVidia Quadro P620	Windows 10 X64**	Standard / Pro / Extended	Silver/Gold /Platinum	1080 / 4k
Asrock Z390Pro4	4.20	i5-8400(2.8GHz) i5-9400/9400F (2.9GHz) i7-8700(3.2GHz) i7-8700k(3.7 GHz) i7-9700/9700F (3.0GHz) i7-9700K(3.6 GHz) i9-9900k(3.6 GHz)	DDR4	8 GB	NVidia GT1030/730 NVidia Quadro P620	Windows 10 X64**	Standard / Pro / Extended	Silver/Gold /Platinum	1080 / 4k
Asrock Z370MPro4	3.10	i5-9400/9400F (2.9GHz) i7-8700(3.2GHz)	DDR4	8 GB	NVidia GT1030/730 NVidia Quadro P620	Windows 10 X64**	Standard / Pro / Extended	Silver/Gold /Platinum	1080 / 4k
Asrock Z370 Pro4	3.10	i5-9400/9400F (2.9GHz) i7-8700(3.2GHz) i7-8700k(3.7 GHz) i7-9700/9700F (3.0GHz) i7-9700K(3.6 GHz)	DDR4	8 GB	NVidia GT1030/730 NVidia Quadro P620	Windows 10 X64**	Standard / Pro / Extended	Silver/Gold /Platinum	1080 / 4k
Asrock Z270 Pro4	2.0	i7-7700k(4.0 GHz)	DDR4	8 GB	ATI FirePro (Win7) NVidia GT730	Windows 7 SP1 X64 / Windows 10 X64**	Standard / Pro / Extended	Silver/Gold /Platinum	1080 / 4k
Asrock Z270M Pro4	2.0	i5-7600 (3.3 GHz)	DDR4	8 GB	ATI FirePro (Win7) NVidia GT730	Windows 7 SP1 X64 / Windows 10 X64**	Standard / Pro	Silver/Gold /Platinum	N/A
GigaByte Z170X-UD3	F6	i7-6700k(4.0 GHz)	DDR4	8 GB	ATI FirePro (Win7) NVidia GT730	Windows 7 SP1 X64 / Windows 10 X64**	Standard / Pro / Extended	Silver/Gold /Platinum	1080 / 4k
ASUS Z170M-plus	2002	i5-6600 (3.3 GHz)	DDR4	8 GB	ATI FirePro (Win7) NVidia GT730	Windows 7 SP1 X64 / Windows 10 X64**	Standard / Pro	Silver/Gold /Platinum	N/A

Native Systems

Motherboard	BIOS	CPU	RAM Type	Recommended RAM	Graphic Card	Windows OS	Pyramix Native	Ovation Native	VCube LE /XE/SE
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Asrock Z390MPro4	4.10	i5-8400(2.8 GHz) i5-9400(2.9 GHz) i7-8700(3.2 GHz) i7-9700(3.0 GHz)	DDR4	8 GB	ATI FirePro NVidia GT1030/730 NVidia Quadro P620	Windows 10 X64**	Standard / Pro / Extended	Silver/Gold /Platinum	1080 / 4k
Asrock Z390Pro4	4.20	i5-8400(2.8 GHz) i5-9400(2.9 GHz) i7-8700(3.2 GHz) i7-8700k(3.7 GHz) i7-9700K(3.6 GHz) i9-9900k(3.6 GHz)	DDR4	8 GB	ATI FirePro NVidia GT1030/730 NVidia Quadro P620	Windows 10 X64**	Standard / Pro / Extended	Silver/Gold /Platinum	1080 / 4k
Asrock Z370MPro4	3.10	i5-9400(2.9 GHz) i7-8700(3.2 GHz)	DDR4	8 GB	ATI FirePro NVidia GT1030/730 NVidia Quadro P620	Windows 10 X64**	Standard / Pro / Extended	Silver/Gold /Platinum	1080 / 4k
Asrock Z370 Pro4	3.10	i5-9400(2.9 GHz) i7-8700k(3.7 GHz) i7-9700K(3.6 GHz)	DDR4	8 GB	ATI FirePro NVidia GT1030/730 NVidia Quadro P620	Windows 10 X64**	Standard / Pro	Silver/Gold /Platinum	1080 / 4k
Asrock Z270 Pro4	2.0	i7-7700k (4.0 GHz)	DDR4	8 GB	ATI FirePro / NVidia NVidia GT730	Windows 7 SP1 X64 / Windows 10 X64**	Standard / Pro	Silver/Gold /Platinum	1080 / 4k
Asrock Z270M Pro4	2.0	i7-7700k (4.0 GHz)	DDR4	8 GB	ATI FirePro / NVidia NVidia GT730	Windows 7 SP1 X64 / Windows 10 X64**	Standard / Pro	Silver/Gold /Platinum	1080 / 4k
GigaByte Z170X-UD3	F6	i7-6700k (4.0 GHz)	DDR4	8 GB	ATI FirePro / NVidia GT730	Windows 7 SP1 X64 / Windows 10 X64**	Standard / Pro	Silver/Gold /Platinum	1080 / 4k
ASUS Z170M-PLUS	2002	i5-6600 (3.3 GHz)	DDR4	8 GB	ATI FirePro	Windows 7 SP1 X64 / Windows 10 X64**	Standard / Pro	Silver/Gold /Platinum	1080 / 4k

Pyramix 10.x 11.x / Ovation 6.x 7.x / VCube 6.x 7.x

MassCore Systems

Motherboard	BIOS	CPU	RAM Type	Recommended RAM	Video In Timeline Use	Windows OS	Pyramix MassCore	Ovation MassCore	VCube LE /XE/SE
GigaByte Z170X-UD3 *	F6	i7-6700k(4.0 GHz)	DDR4	8 GB	ATI FirePro (Win7) NVidia GT730	Windows 7 SP1 X64 / Windows 10 X64**	Standard / Pro / Extended	Silver/Gold /Platinum	1080 / 4k
ASUS Z170M-plus *	2002	i5-6600 (3.3 GHz)	DDR4	8 GB	ATI FirePro (Win7) NVidia GT730	Windows 7 SP1 X64 / Windows 10 X64**	Standard / Pro	Silver/Gold /Platinum	N/A
GigaByte Z97X-UD3H	F7	i5-4590 (3.3 GHz)	DDR3	8 GB	ATI FirePro	Windows 7 SP1 X64	Standard / Pro	048 / 128	1080
GigaByte Z97X-UD3H	F7	i7-4790 (3.6 GHz)	DDR3	8 GB	ATI FirePro	Windows 7 SP1 X64	Standard / Pro / Extended	048 / 128 / 256	1080 / 4k

* Pyramix 10.1 or above required ** Pyramix 11 or above required for Windows 10

Installation guides are available [Validated hardware installation guides](#)

Native Systems

Motherboard	BIOS	CPU	RAM Type	Recommended RAM	Graphic Card	Windows OS	Pyramix Native	Ovation Native	VCube LE /XE/SE
GigaByte Z170X-UD3	F6	i7-6700k (4.0 GHz)	DDR4	8 GB	ATI FirePro / NVidia GT730	Windows 7 SP1 X64 / Windows 10 X64**	Standard / Pro	Silver/Gold /Platinum	1080 / 4k
ASUS Z170M-PLUS	2002	i5-6600 (3.3 GHz)	DDR4	8 GB	ATI FirePro	Windows 7 SP1 X64 / Windows 10 X64**	Standard / Pro	Silver/Gold /Platinum	1080 / 4k
Apple MacBook Pro Late2016		i5-6267U (2.9 GHz)	DDR3	8 GB	Iris Graphics 550	Windows 10 X64 **	Standard / Pro	Silver/Gold /Platinum	N/A

Apple MacBook Pro Mid2015		i7-4980HQ (2.8 GHz)	DDR3	16 GB	AMD Radeon R9 M370X	Windows 10 X64 **	Standard / Pro	Silver/Gold /Platinum	1080 / 4k
GigaByte Z97X-UD3H	F7	i7-4790 (3.6 GHz)	DDR3	8 GB	ATI FirePro	Windows 7 SP1 X64	Standard / Pro	Silver/Gold /Platinum	1080 / 4k
GigaByte Z97X-UD3H	F7	i5-4590 (3.3 GHz)	DDR3	8 GB	ATI FirePro	Windows 7 SP1 X64	Standard / Pro	Silver/Gold /Platinum	1080

** Pyramix 11 or above required for Windows 10

Installation guides are available [Validated hardware installation guides](#)

Additional Notes

- Windows Operating System : Latest MassCore engine (Pyramix 11.x & Ovation 7.x) required for Windows 10 compatibility. MassCore is not compatible with Windows 8.1. See the [Supported Operating Systems](#) page for further details.
- Since PMX V11/ Ovation V7, MassCore users running a [RAID configuration](#) must use a dedicated RTX dongle (SSK-HUD-RTX) to authorize MassCore. This issue only affects the system (Windows) RAID drives, if you have RAID Data drives, a dedicated dongle is not required.
- MassCore 10.1 (or above) engine required for Intel Skylake (or above) CPU compatibility
- Since Pyramix v11, a dedicated garphic card is recommended, especially for Video in Timeline features or PyraCube computers.
- Pyramix Video in Timeline features require a dedicated graphic card, see below for specific model details.
- Only 1 video is recommended in DXD or DSD Projects
- In Native – RAVENNA ASIO Driver : 256 samples buffer size recommended when playback video in Pyramix Timeline.
- Laptop users must set their Windows Power Scheme to High Performance (or Ultimate Performance since Windows 10 Spring Creator)
- Windows 7 users should not be running the Windows Classic theme. Follow the recommended Visual Effects settings in our [Windows 7 configuration guide](#).
- Important Note:** Nvidia graphic cards are SUPPORTED for MassCore use since Pyramix 11 / Ovation 7 / VCube 7, but not with previous versions (ATI recommended in that case)

Accessory Hardware(as of Pyramix 11)

Graphic cards

ATI Fire Pro Cards Tested

- FirePro 2270 (Legacy) (2 Displays)
- FirePro 2460 (4 Displays mini DP)
- FirePro W4100 (4 Displays - [Windows 10 performance issues on MassCore platform - only use such graphic card with Windows 7 SP1.](#))

NVidia Graphic Cards tested (as of Pyramix 11)

- GT730 (Fanless - 2 Displays)
- GTX750 (2 Displays)
- GT1030 (Fanless - 2 Displays)

See the [Graphic cards recommendations](#) page for details.

Video Cards

Validated Video Cards for Pyramix Video in Timeline (as of Pyramix 11)

- Black Magic Design Decklink MiniMonitor*
- Black Magic Design Decklink SDI 4K**
- Black Magic Design Decklink Studio 4K**

VCube Validated Video Cards

- AJA KONA Lhi(Windows 7 only)
- Black Magic Design Decklink MiniMonitor (PyraCube Only***)
- Black Magic Design Decklink MiniRecorder
- Black Magic Design Decklink SDI 4K
- Black Magic Design Decklink Studio 4K

* The DeckLink MiniMonitor has no Video reference to ensure genlock, if in use drifting over time is a possibility.

** For Pyramix or PyraCube (both on the same system) Merging recommends the Decklink SDI 4K or Decklink Studio 4K to ensure genlock and sample accuracy (Masscore/Video Ref) or frame accuracy (Native/Audio & Video Ref).

*** Video reference not available so not appropriate for standalone VCube systems.

Pyramix 8.x 9.x / Ovation 4.x 5.x / VCube 4.x 5.x

Model	Proc.	Chipset	BIOS	OS	Ravenna/ MassCore	Myk/MassCore	Graphics	Built
GigaByte <u>Z97X UD3H</u>	i5 4590	Z97	F7	Win7 / Win7SP1	Yes *	Not recommended	Intel® HD Graphics 4600	Oct-14
GigaByte <u>Z97M DS3H</u>	i5 4590	Z97	F5	Win7 / Win7SP1	Yes *	Not recommended	Intel® HD Graphics 4600	Oct-14
GigaByte <u>Z87X D3H</u>	i5 4570	Z87	F7	Win7 / Win7SP1	Yes *	Yes	Intel® HD Graphics 4600	Nov-13
Intel <u>DQ87PG</u>	i5 4570	Q87	35	Win7 / Win7SP1	Yes *	Yes	Intel® HD Graphics 4600	Aug-13
Asus <u>P8Z77M PRO</u>	i5 3450	Z77	1708	Win7 / Win7SP1	Yes *	Not recommended	Intel® HD Graphics 2500	Sep-12
Asus <u>P8Z77V</u>	i5 3450	Z77	1708	Win7 / Win7SP1	Yes *	Not recommended	Intel® HD Graphics 2500	Aug-12
Intel <u>DQ77MK</u>	i5 3450	Q77	0054 **	Win7 / Win7SP1	Yes *	Yes**	Intel® HD Graphics 2500	Jul-12
Intel <u>DX79 SI</u>	i7 3820 / i7 3930k	X79	559	Win7 / Win7SP1	Yes *	Yes**	ATI FirePro V3700	Jun-12

* Tested with NETMSCGBEX1 Ravenna/MassCore GbE Network Accelerator card ** Ravenna MassCore only reliable with this BIOS version and above.

Pyramix 7.x / Ovation 3.x / VCube 3.x

Model	Proc.	Chipset	BIOS	OS	Myk-X capable	Myk/MassCore	Graphics	Built
Intel <u>DQ67SW</u>	i5 2400	Q67	52	Win7 / Win7SP1	Yes ***	Yes	Intel® HD Graphics 2000	May-11
Asus <u>P7H57DV EVO</u>	i7860	H57	1606	Vista SP2 Win7	Yes ***	Yes	Sapphire HD4350	Jul-10 Jul-10
Intel <u>DP55KG/WG</u>	i7860 / i5750	P55	5926	XP SP2 Vista SP2 Win7	Yes ***	Yes	Sapphire HD4350	Nov-09 Nov-09 Feb-10

*** Due to an incompatibility between the Intel i5/i7 chipsets and the PCIe bridge of the MYKX30 card, Merging does not recommend using MYKX30 alone in any such motherboard. However as long as the Mykerinos X30 is NOT the master TC card in a multicard system, a multiboard system is not affected by this incompatibility.

- This means that if you place a PCI Mykerinos MB card as the master, then the slave cards can all be Mykerinos X30. In large multiboard systems it is therefore possible to run MassCore without any stability issues due to conflicts with the PCIe busses of i5/i7 motherboards.
- Users with Mykerinos MYKX50 are advised to stay off upgrading their existing system to any i5/i7 platform. More info about hardware (in) compatibility can be found in the Forum, Support section
- Other motherboards and components can be used for Merging products, but have not been tested by us. If you want to discuss these components or available alternatives see the Merging Hardware discussion forum here.

Legacy Operating Systems compatibility

	Pyramix				Ovation				VCube	
	RAVENNA MassCore	Myk MassCore**	Myk only	Native	RAVENNA MassCore	Myk MassCore**	Myk Only	Native	Myk	Native
Win 7 SP1 (64 bit)	Yes	No	No	7.1 and above	Yes	No	No	3.0 and above	No	Yes
Win 7 SP1 (32 bit)	8.0	7.0 and above	7.1 and below	Yes	4.0	2.0 and above	Yes	Yes	Yes	Yes
Win 7 (64 bit)	No	No	No	7.1 and above	No	No	No	3.0 and above	No	Yes
Win 7 (32 bit)	8.0	7.0 and above	7.1 and below	Yes	4.0	2.0 and above	Yes	Yes	Yes	Yes
Win Vista SP2	No	6.1 up to 8.1	6.0 up to 8.1	6.0 up to 8.1	No	1.1 up to 4.1	1.0 up to 4.1	1.0 up to 4.1	2.0 up to 4.1	2.0 up to 4.1
Win Vista SP1	No	6.1 up to 8.1	6.0 up to 8.1	6.0 up to 8.1	No	1.1 up to 4.1	1.0 up to 4.1	1.0 up to 4.1	2.0 up to 4.1	2.0 up to 4.1
Win Vista	No	6.0 up to 8.1	6.0 up to 8.1	6.0 up to 8.1	No	Yes	Yes	Yes	Yes	Yes
Win XP SP3	No	6.0 up to 8.1	6.0 up to 8.1	6.0 up to 8.1	No	2.0 up to 4.1	2.0 up to 4.1	2.0 up to 4.1	Yes	Yes
Win XP SP2	No	6.0 up to 8.1	6.0 up to 8.1	6.0 up to 8.1	No	Yes	Yes	Yes	Yes	Yes
Win XP SP1	No	No	5.1, 5.0, 4.3	5.1, 5.0, 4.3	No	No	No	No	No	No
Win XP	No	No	4.3	4.3	No	No	No	No	No	No
Win 2000	No	No	4.3	4.3	No	No	No	No	No	No

**MassCore is a paid software option (included in Merging's current MassCore software packs) that is compatible only with versions 6.0 and higher of Pyramix/Ovation.

Notes:

- If you are currently running version 5.1 or earlier of Pyramix and you wish to use MassCore you must first upgrade Pyramix to version 6.0.
- Please also note the "Minimum System Requirements" section below detailing the IT hardware necessary to run MassCore especially noting the use of an Intel Core2 Quad processor as the heart of the system.

Important Note regarding some 'Sandy Bridge' and 'Ivy Bridge' Intel chipsetbased motherboards (specifically P67, H67 and Z77)

Merging does not recommend any of its Pyramix and/or Ovation users to upgrade their Mykerinos based systems to the Intel P67, H67 and Z77 chipset based platform. The main reason for that is that the PCIe to PCI bridge controllers, as implemented on the P67, H67 and Z77 based motherboards deliver less than half the throughput of native PCI Legacy supporting chipsets. Our internal tests conducted on such platforms indicate that the PCI performance on these motherboards is actually so poor that a single PCI card (such as the MYKMB5) with an AES I/O daughter card will already use most of the available PCI bandwidth when running at 48 kHz sampling rate under MassCore. You may just forget using a MADI daughter card or any higher sampling rate above 48 kHz with such motherboards, despite the Mykerinos' highly efficient PCI DMA (Direct Memory Access) engine.

The above limitation doesn't affect as much VCube users (or Pyramix/Ovation users with very basic I/O requirements), whose audio needs are usually limited to not more than 24 AES I/O channels at a maximum of 48 kHz which is just OK with P67, H67 and Z77 chipsetbased PCI as long as no other devices that would share the PCI bandwidth (such as typically Firewire) are being used simultaneously.

- For those interested in upgrading to a 'Sandy Bridge' or 'Ivy Bridge' generation motherboards, our current advice is to opt for one of the Q67 or Q77 chipset based solutions, such as the DQ77MK or DQ67SW mentioned below.
- Merging is committed to further review all new Intel chipset iterations and variants, as they are rolled out by various motherboard manufacturers.
- Here is a list of current components integrated in Merging's turnkey systems. This list will regularly be updated with newer, commercially available motherboards.