






# Themis Family of 6U VMEbus Computers and Graphics Solutions

Board	Type	Processor	Memory	L2 Cache Memory	Expansion Slot	Ethernet Port	SCSI/SATA	Serial/Parallel Ports	Graphics	KeyBoard/Mouse & USB Ports	Software	Other
<b>VMEbus Single-Board Computers - Quad-Core Intel Processor / Gigabit Interface</b>												
	<b>XV1/1</b>	Intel Quad-Core with clock rates of 2.13GHz	up to 8GB ECC DDRII SDRAM	12MB	SoDIMM memory expansion up to 8 Gig <b>OR</b> XMC/PMC slot <b>OR</b> 2.5 inch SATA Hard Drive <b>OR</b> 2GbE to Front Panel	(1) Gig E on Front Panel, Two on PO (VITA 41)	Three SATA II ports, 1 on front panel, 2 on P2	Two (2) Serial ports: (1) on front panel, (1) on P2 at rear	VGA Graphics front panel	USB on front panel and P2, PS2 on P2, USB - (4) USB (2 on FP, 2 on P2)	Solaris 10, Linux, Windows	VME64 Interface, VME64 Ejectors standard, VME32 Ejectors optional
<b>VMEbus Single-Board Computers - Intel Core 2 Duo Processor / Gigabit Interface</b>												
	<b>TC2D64/1</b>	Intel Core 2 Duo with clock rates of 1.5 to 2.16GHz	up to 4GB ECC DDRII SDRAM	4MB	One 64-bit/66 MHz PMC slot on base	(2) 10/100/1000Mb with front panel RJ45	Two SATA II ports on front panel	Four (4) Serial ports: (2) on front panel, (2) on P2 at rear	VGA Graphics front panel	PS/2 (via USB) on front panel and P2, USB - (4) USB (2 on FP, 2 on P2)	Solaris 10, Linux, Windows	VME64x Interface, VME64 Ejectors standard, VME32 Ejectors optional
	<b>TC2D64/2P2</b>	Intel Core 2 Duo with clock rates of 1.5 to 2.16GHz	up to 4GB ECC DDRII SDRAM	4MB	One 64-bit, 66 MHz PMC slot on base; two XMC slots on carrier	(3) 10/100/1000Mb with front panel RJ45	Two SATA II ports on front panel	Six (6) Serial ports: (4) on front panel, (2) on P2 at rear	VGA Graphics front panel	PS/2 (via USB) on front panel and P2, USB - (4) USB (2 on FP, 2 on P2)	Solaris 10, Linux, Windows	VME64x Interface, VME64 Ejectors standard, VME32 Ejectors optional, Audio
	<b>TC2D64/2P3</b>	Intel Core 2 Duo with clock rates of 1.5 to 2.16GHz	up to 4GB ECC DDRII SDRAM	4MB	One 64-bit, 66 MHz PMC slot on base; three 64-bit/33 MHz on carrier	(2) 10/100/1000Mb with front panel RJ45	Two SATA II ports on front panel	Four (4) Serial ports: (2) on front panel, (2) on P2 at rear	VGA Graphics front panel	PS/2 Front Panel and P2, USB, (4) USB 1.1 (2 on FP, 2 on P2)	Solaris 10, Linux, Windows	VME64x Interface, VME64 Ejectors standard, VME32 Ejectors optional
<b>VMEbus Single-Board Computers - AMD Mobile Athlon 64 Processor / Gigabit Interface</b>												
	<b>TA64/1</b>	AMD Turion 64 64-bit Mobile Athlon processor at 1.6 GHz	1 GB to 4 GB ECC DDR333 SDRAM	2MB L2 cache	One 64-bit/66 MHz PMC slot on base	(1) 10/100/1000Mb with front panel RJ45	Dual Ultra-320 LVD SCSI	Four (4) Serial ports: (2) on front panel, (4) on P2 at rear (2 of the P2 ports are shared ports)		PS/2 Front Panel and P2, USB, (4) USB 1.1 (2 on FP, 2 on P2)	Solaris 9 (32A) & 10 (64A), Red Hat and SuSe Linux, Windows	VME64x Interface, VME64 Ejectors standard, VME32 Ejectors optional, P2 Floppy port
	<b>TA64/2P2</b>	AMD Turion 64 64-bit Mobile Athlon processor at 1.6 GHz	1 GB to 4 GB ECC DDR333 SDRAM	2MB L2 cache	One 64-bit, 66 MHz PMC slot on base; two 64-bit/33 MHz on carrier	(2) 10/100/1000Mb with front panel RJ45	Dual Ultra-320 LVD SCSI	Six (6) Serial ports: (4) on front panel, (4) on P2 at rear (2 of the P2 ports are shared ports)		PS/2 Front Panel and P2, USB, (4) USB 1.1 (2 on FP, 2 on P2)	Solaris 9 (32A) & 10 (64A), Red Hat and SuSe Linux, Windows	VME64x Interface, audio port, rotary switch, VME64 Ejectors standard, VME32 Ejectors optional, Audio, P2 Floppy port
	<b>TA64/2P3</b>	AMD Turion 64 64-bit Mobile Athlon processor at 1.6 GHz	1 GB to 4 GB ECC DDR333 SDRAM	2MB L2 cache	One 64-bit, 66 MHz PMC slot on base; three 64-bit/33 MHz on carrier	(1) 10/100/1000Mb with front panel RJ45	Dual Ultra-320 LVD SCSI	Four (4) Serial ports: (2) on front panel, (4) on P2 at rear (2 of the P2 ports are shared ports)		PS/2 Front Panel and P2, USB, (4) USB 1.1 (2 on FP, 2 on P2)	Solaris 9 (32A) & 10 (64A), Red Hat and SuSe Linux, Windows	VME64x Interface, VME64 Ejectors standard, VME32 Ejectors optional, P2 Floppy port
<b>Graphics</b>	<b>Type</b>	<b>Display Processor</b>	<b>Memory</b>	<b>Board PCI Speed</b>	<b>PMC Slots</b>	<b>PMC Speed</b>	<b>Host PCI Speed</b>	<b>Graphics Heads</b>	<b>Video Support</b>	<b>Resolution</b>	<b>Software</b>	<b>Other</b>
	<b>TGA-7000</b> (2-D/3-D PMC graphics adaptor for use with TA64)	ATI Radeon 7000 graphics engine	64 MB DDR SDRAM	33/66 MHz	-----	32-bit: 33 MHz/66 MHz	-----	Dual head (1) HD-15, (1) DVI	VGA and DVI video connectors on front panel	640x480 to 1920x1080 (1280x1024 on DVI port)	Solaris 10x86, Linux, Windows 2000 and later	Two independent CRT controllers to support two asynchronous simultaneous displays, DDCI and DDC2B+ for plug-and-play monitors
<b>Over for more VME Single-Board Computers and Graphics Adaptors</b>												

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Board	Type	Processor	Memory	L2 Cache Memory	Expansion Slot	Ethernet Port	SCSI/SATA	Serial/Parallel Ports	Graphics	KeyBoard/Mouse & USB Ports	Software	Other
<b>VMEbus Computers - UltraSPARC IIIi Processors</b>												
	<b>USPIIIi</b> (boards with single CPU uses 2 VME slots. Boards with dual CPUs use 3 VME slots.)	Single or Dual 1.28GHz UltraSPARC IIIi	1 GB to 4 GB DDR266 SDRAM per processor	1 MB per processor	One 64-bit PMC slot on base	10/100/1000Base T	Dual Ultra 160 SE/LVD SCSI ports	Three RS-232 ports, One RS422 port		Sun USB or PS/2 (ordering option), (2) USB 1.1	Solaris 8/9/10	VME64x Interface, dual copper fibrechannel ports, VME64 Ejectors standard
	<b>USPIIIi supports up to two TGA3D+ boards (TGA3D+ includes a single PMC slot with 64-bit/33/66Mhz interface) that must be installed in the second slot of the USPIIIi board: USPIIIi/G (one TGA3D+ adapter) boards with single processors use 3 VME slots, USPII</b>											
	<b>USPIIIi/P2</b> (boards with single CPU uses 3 VME slots. Boards with dual CPUs use 4 VME slots.)	Single or Dual 1.28GHz UltraSPARC IIIi	1 GB to 4 GB DDR266 SDRAM per processor	1 MB per processor	Three 64-bit PMC slots (one on base; two on expansion)	10/100/1000Base T, a second 10/100Base T port on PMC carrier	Dual Ultra 160 SE/LVD SCSI ports	Five RS-232 ports (3 ports on base, 2 on PMC carrier), One RS422 port		Sun USB or PS/2 (ordering option), (2) USB 1.1	Solaris 8/9/10	VME64x Interface, dual copper fibrechannel ports, audio port, rotary switch, VME64 Ejectors standard
	<b>USPIIIi/P2 supports up to one PMC carrier and one TGA3D+ board that must be installed in the second slot of the USPIIIi board: USPIIIi/GP2 (one TGA3D+ adapter) boards with single processors use 4 VME slots, USPIIIi/GP2 boards with dual processors use 5 VM</b>											
	<b>USPIIIi/P3</b> (boards with single CPU uses 3 VME slots. Boards with dual CPUs use 4 VME slots.)	Single or Dual 1.28GHz UltraSPARC IIIi	1 GB to 4 GB DDR266 SDRAM per processor	1 MB per processor	Four 64-bit PMC slots (one on base; three on expansion)	10/100/1000Base T	Dual Ultra 160 SE/LVD SCSI ports	Three RS-232 ports, One RS422 port		Sun USB or PS/2 (ordering option), (2) USB 1.1	Solaris 8/9/10	VME64x Interface, dual copper fibrechannel ports, VME64 Ejectors standard
<b>USPIIIi/P3 supports up to one PMC carrier and one TGA3D+ board that must be installed in the second slot of the USPIIIi board: USPIIIi/GP3 (one TGA3D+ adapter) boards with single processors use 4 VME slots, USPIIIi/GP3 boards with dual processors use 5 VM</b>												
<b>VMEbus Single-Board Computers - UltraSPARC III Processors / Ethernet Interface</b>												
	<b>USPIIe-USB/1</b>	550/600/650 MHZ UltraSPARC IIIi	128 MB to 4 GB ECC SDRAM	512 KB	One 64-bit PMC slot on base	10/100Base T	Dual Ultra80 LVD Wide SCSI	2 RS-232 ports (or 1 RS-232 & 1 RS-232/422) front, or 4 RS-232 on P2 at rear IEEE 1284 Bi-directional parallel port		Sun USB or PS/2 (USB port preempts use of P2 TTYA/B ports), (3) USB 1.1	Solaris 8/9/10	VME64x Interface, VME64 Ejectors standard, VME32 Ejectors optional
	<b>USPIIe-USB/2P2</b>	550/600/650 MHZ UltraSPARC IIIi	128 MB to 4 GB ECC SDRAM	512 KB	Three 64-bit PMC slots (one on base; two on 2P2)	Dual 10/100Base T	Dual Ultra80 LVD Wide SCSI	4 RS-232 ports (or 3 RS-232 & 1 RS-232/422) front, or 4 RS-232 on P2 at rear IEEE 1284 Bi-directional parallel port		Sun USB or PS/2 (USB port preempts use of P2 TTYA/B ports), (3) USB 1.1	Solaris 8/9/10	VME64x Interface, audio port, rotary switch, VME64 Ejectors standard, VME32 Ejectors optional
	<b>USPIIe-USB/2P3</b>	550/600/650 MHZ UltraSPARC IIIi	128 MB to 4 GB ECC SDRAM	512 KB	Four 64-bit PMC slots (one on base; three on 2P3)	10/100Base T	Dual Ultra80 LVD Wide SCSI	2 RS-232 ports (or 1 RS-232 & 1 RS-232/422) front, or 4 RS-232 on P2 at rear IEEE 1284 Bi-directional parallel port		Sun USB or PS/2 (USB port preempts use of P2 TTYA/B ports), (3) USB 1.1	Solaris 8/9/10	VME64x Interface, VME64 Ejectors standard, VME32 Ejectors optional
<b>Graphics</b>	<b>Type</b>	<b>Display Processor</b>	<b>Memory</b>	<b>Board PCI Speed</b>	<b>PMC Slots</b>	<b>PMC Speed</b>	<b>Host PCI Speed</b>	<b>Graphics Heads</b>	<b>Video Support</b>	<b>Resolution</b>	<b>Software</b>	<b>Other</b>
	<b>TGA-100</b> (2-D/3-D PMC graphics adaptor for use with USPIIIi and USPIIe-GB and USPIIe-USB)	ATI Radeon 7000 graphics engine	16 or 32MB DDr SDRAM	33/66 Mhz	-----	32-bit: 33 MHz/66 MHz	-----	Dual head, (1) HD-15 (1) DVI	VGA and DVI video connectors on front panel	640x480 to 1920x1080 (1280x1024 on DVI port)	Solaris 8/9/10, OpenGL 1.3 and later	Two independent CRT controllers to support two asynchronous simultaneous displays, DDC1 and DDC2B+ for plug-and-play monitors