

Cadalyst Labs Report: Mobile Workstation Review

	Xi PowerGo XT	M4800	Krypton	EUROCOM X8	HP ZBook 15	ThinkPad W540	MSI GT60 20KWS
Company	@Xi Computer Corp.	Dell	Digital Storm	Eurocom <check against table>	Hewlett-Packard	Lenovo	MSI Computer Corp.
Web Site	www.xicomputer.com	www.dell.com	www.digitalstormonline.com	www.eurocom.com	http://www.hp.com/	www.lenovo.com	www.msi.com
Phone	800.432.0486	800.999.3355	866.817.8676	877.Eurocom; 613.224.6122	800.289.6947	855.2.LENOVO	626.913.0828
Cadalyst Rating	Highly Recommended	A-	Highly Recommended	Highly Recommended	B+	B+	B+
Estimated street price, as delivered	\$2,496 (starts at \$1,399; \$2,538 with ground shipping)	\$2,492 w/ ground shipping (starts at \$1,249)	\$2,489 w/ ground and \$50 discount (starts at \$1,531)	\$2,444 w/ ground shipping (starts at \$1,650)	\$2,499 includes 20% discount for configurable workstation discount (starts at \$1,499; \$2,521 with ground shipping)	\$2,215 w/ ground shipping through cdw.com (starts at \$1,249)	\$2,480 w/ ground shipping through amazon.com (starts at \$1,899)
Dimensions (HxWxD in inches)	1.65~1.79" x 16.22" x 10.87"	1.5" x 10.7" x 16.4"	1.81" x 16.30" x 11.26"	16.76 x 11.8 x 1.68-2.19"	15 x 10.1 x 1.2 in	1.10" x 14.83" x 9.77"	2.1" x 15.6" x 10.5"
Weight (lbs)	8.6 lb Notebook + Battery Pack	6.8 lb	9.04lb	8.8 lb	6.2 lb, 2.82 kg	5.95 lb	7.4 lb
CPU type	Intel Core i7 4810MQ	Intel Extreme Quad Core i7 4940XM	Intel Core i7 4810MQ	Intel Core i7 4810MQ	Intel Core i7-4800MQ Quad Core	Intel i7-4800MQ	Intel Core i7-4700MQ
CPU speed	2.8/3.8 GHz – 1C Turbo Boost	3.1 – 4.0 GHz	Up to 3.80 Ghz	2.8 GHz, Max turbo 3.8 Ghz	2.7 GHz, 1,600 MHz, 6 MB cache, 4 cores	2.7 – 3.7 GHz	2.7–3.7 GHz with Turbo Boost
L2 cache-size/speed	Intel Smart Cache / 6 MB	8 MB Level 3	6 MB	6 MB Level 3	6 MB Level 3	6 MB	6 MB Level 3
Chipset	Mobile Intel HM87 Express Chipset	Mobile Intel QM87 Express Chipset	Intel HM87 Express	Intel HM87 Mobile Express Chipset	Mobile Intel QM87	4800MQ	Intel HM87
Memory type/speed	DDR3/1,600 MHz	DDR3/1,600 MHz	DDR3/1,600 MHz	DDR3/1,600 MHz	DDR3L 4DM/1,600 MHz	DDR3L/1,600 MHz	DDR3/1,600 MHz
Memory (tested/max)	16 GB/32 GB	16 GB/32 GB	16 GB/32 GB	16 GB/32 GB	16 GB/32 GB	8 GB/32 GB	16 GB/32 GB
Memory sockets, total/free	4/2	4/0	4 / 2	4/2	4x4GB SODIMM slots (quad-core processor) supporting dual-channel	4/3	5/2
Supports ECC memory?	No	Not listed	No	No	Not listed	No	Not listed
Hard drive vendor	Samsung	Not listed	Samsung (SSD) + Western Digital (HDD)	Micron & Hitachi	Not listed	Samsung	Not listed
Hard drive type	SSD	SSD	SSD + HDD	Solid State & Hard Disk	HDD with 32GB SSD Cache	SSD, SATA 6.0	mSATA and SATA

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Hard drive size	250 GB	256 GB	250 GB and 750 GB	120 GB and 1 TB	500 GB	256 GB	128 GB and 1 TB
DVD-ROM drive vendor and speeds	Sony 8X	8X read only (RW is available for extra cost)	8X Multi- Drive	Panasonic 8x	8X	New Lite 8X +/- RW	Blue Ray DVD
Sound card	Premium Sound Blaster X-Fi MB3 audio technology with Onkyo speakers and subwoofer	Not listed	Not listed	HDA; THX TruStudio Pro Sound Blaster® X-Fi™ MB 2	Not listed	RealTek ALC3232 codec, Dolby Home Theater v4,	Not listed
Pointing device	Integrated Touchpad with multi-gesture and scrolling function	Not listed	Not listed	TouchPad w/multi-gesture & scrolling	Touchpad, Point Stick	TrackPoint pointing device and mylar surface touchpad, integrated 5-buttons	Not listed
Expansion slots provided (PCI-Express/PCI/PCI-ISA/ISA)	N/A	N/A	N/A	PCI Express 3.0	1 ExpressCard/54; 1 Secure Digital; 1 Smart Card Reader	PCI-e x 16	N/A
Expansion slots filled (PCI-Express/PCI/PCI-ISA/ISA)	N/A	N/A	N/A	Thunderbolt	N/A	1 PCI-e used by NVIDIA card	N/A
Drive bays accessible (5.25"/3.5"/2.5")	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Drive bays internal (5.25"/3.5"/2.5")	One 3.5" for second HD	One 2.5" available for second HD	Not listed	3 x 2.5", 2 x mSATA	N/A	1 2.5" for SSD	Not listed
USB Ports (2.x/3.x)/Firewire	1x2.0/2x3.0/1x Mini Firewire 1394a/1xeSATA	4 USB 3.0; 1 eSATA/USB 2.0; 1 DisplayPort 1.2; 1 HDMI 1.4; 1 VGA.	3 USB 3.0 Ports / 1 USB 2.0	3 x 2.5", 2 x mSATA	(2) USB 3.0; (1) USB 2.0; (1) USB 3.0 charging port; 1 Thunderbolt	2 x USB 3.0, 2 x USB 2.0, Thunderbolt	
Serial/parallel	No	Not listed	Not listed	3x USB 3.0 / 2x USB 2.0	Not listed	N/A	Not listed
MIDI/game	9-in-one Card Reader	Not listed	Not listed	None	Not listed	N/A	Not listed
External SCSI	no	Not listed	Not listed	None	Not listed	N/A	Not listed
Network card/modem	Integrated Gigabit Ethernet LAN, Internal 802.11b/g/n Wireless + Bluetooth	Not listed	Gigabit Ethernet	Not listed	Not listed	N/A	Not listed
Graphics card bus (AGP/PCI)	PCIe	PCI	MXM	PCIe	PCI	PCI	Not listed
Graphics card model	NVIDIA Quadro K3100M Kepler GPU w/ Optimus Technology	NVIDIA's Quadro K2100M graphics card	NVIDIA Quadro K3100M	256 Bit	NVIDIA Quadro K610M	NVIDIA	NVIDIA Quadro K3100M

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Graphics card onboard memory	4GB DDR5	2 GB GDDR5	4GB GDDR5 VRAM	N15E-Q1-A2	1 GB	2 GB	4 GB GDDR5
Graphic card driver version	332.66	Not listed	Not listed	4 GB DDR5	Not listed	333.11	Not listed
Graphics card resolution, maximum	4k external	Not listed	Not listed	Internal 1920x1080, External 4096x2160	3,840 x 2,160 pixels	N/A	Not listed
Colors/refresh rate at maximum resolution	65k 60Hz	Not listed	Not listed	120Hz Optional	Not listed	N/A	Not listed
Warranty: labor/parts/on-site (months)	One year/one year/one year	3 years/3 years/3 years	3 year labor and 1 year part replacement	1 Year parts and labor	3 year and 1 year warranty options available, 1 year limited warranty on battery. Optional HP Care Pack Services extend warranty	3 years/1 year for battery, send in and replace	2 years parts and labor.
24-hour replacement parts?	Yes	Yes	No	Yes	Yes	N/A	Not listed
24-hour telephone support?	Yes	Not listed	No	Yes	Yes	N/A	Yes
Return policy/restocking fee	Full refund within 30 days	Yes, 100% if defective, or incur stocking fee up to 15%.	30 days; 15% restocking fee	30 days	30 days; 15% restocking fee	N/A	Not allowed except for defective equipment.
Is product certified for use with CAD-related software?	Yes, contact company for more information.	Yes, contact company for more information.	No, contact company for more information.	Yes, contact company for more information.	Contact company for more information.	Yes, contact company for more information.	Contact company for more information.

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CADALYST REVIEW RESULTS							
C2015 (1280x1024; true-color)							
Total Index	564	564	543	571	466	517	493
3D Graphics Index	1,291	1,198	1,229	1,372	1,015	1,123	1,056
2D Graphics Index	415	460	406	404	386	400	390
Disk Index	279	323	269	240	237	292	287
CPU Index	273	275	269	268	223	253	236
SPECViewperf 11	(1280x1024; true-color)						
catia-03	61.31	48.24	47.31	55.27	31.34	49.59	62.34
ensight-04	40.44	24.23	34.52	42.18	14.93	25.24	34.85
lightwave-01	72.95	78.04	52.44	77.61	68.99	72.31	67.09
maya-03	118.57	86.86	48.27	113.32	56	59.70	107.36
proe-05	18.89	21.52	17.48	17.70	15.88	21.37	18.89
sw-02	59.65	52.88	49.94	61.43	39.99	52.55	54.48
tcvis-02	54.23	36.59	41.80	46.96	27.05	42.27	54.77
snx-01	50.66	31.13	38.48	46.34	20.51	34.05	46.49
Average SPECViewperf	60	47	41	58	34	45	56
Combined Score	624	611	584	629	500	562	549
Battery Life	112 minutes	80 minutes	103 minutes	129 minutes	149 minutes	200 minutes	107 minutes