

# Laptops and Netbooks

Manufacturer	Model	Works (yes/no)	Notes and/or specific usage instructions	Contributor
Acer	Ferrari 1100	yes	Model: 1100-704G25Mn	
Acer	Ferrari 3400	yes		
Acer	Ferrari 4000	yes		
Acer	Ferrari 4200 WLMi	yes		
Acer	Ferrari 4500 WLMi	yes		
Acer	Ferrari 5000	yes		
Acer	Aspire AS3810T	No	Hangs after OS banner when booting from a USB DVD. With '-v', displays 'pseudo-device: dld0' and 'dld0 is /pseudo/dld@0' last.	Gary Mills
Acer	Aspire One ZG8			Deano Calver
Asus	Eee PC 1005PE		Atheros AR8132 / L1c Gigabit Ethernet works with fixed atge driver in oi_151a6. Wireless works. 'vgatext' display driver works.	Gary Mills
Dell	Latitude D420	For oi_147	Stopped booting for 148	Jon Tibble
Dell	Inspiron 1545	For oi_151a	Broadcom Corporation BCM4312 802.11b/g driver missing	Ganapathy S A
Dell	Latitude E6520			Marco van Lienen
Dell	XPS M1330	yes	Broadcom Corporation BCM4312 802.11b/g driver missing. Doesn't show battery status.	Maxim Kondratovich
Hewlett-Packard	EliteBook 2170p	no	OI hipster-20190308. Wireless does not work. See <a href="#">Bug 10556</a> for details. Everything else works.	Gary Mills
Hewlett-Packard	2710p	yes, oi_151a7	ACPI works, no Wacom driver. Everything works fine, secondary port for graphics card listed as unknown, but external display works.	Bryan Iotti
Hewlett-Packard	DV 6000	yes	Works perfectly, including graphics, sound and usb	Johan S
Hewlett-Packard	EliteBook 8760w	yes, oi_151a7	WiFi fails from time to time, set "set apix_enable=0" in /etc/system to work-around illumos issue #1723, SDcard works, NVIDIA Graphics work (3D accelerated), webcam works, USB3 works not of course (no driver), suspend does not work correctly	Olaf Bohlen
Hewlett-Packard	EliteBook 6930p	yes, oi_151a7	Works: WiFi, Ethernet, no driver issues after disabling Intel MEI/AMT. AMD Radeon HD 3400 only works for 2D acceleration, due to missing KMS. Incomplete ACPI support: no suspend, low battery life (2hrs).	Bryan Iotti
Lenovo	ThinkPad X1 Carbon 20A7004H RT	/hipster (July 2014 ISO)	<p>Installed OI from USB drive (switched it to USB 2.0 mode in BIOS). Also selected legacy boot.</p> <p>Gigabit Ethernet (Intel I218-V) works with e1000g0 driver.</p> <p>Sound card (ddu detects Intel Haswell-ULT and Intel Lynx Point-LP HD Audio controllers) is detected, but it seems doesn't work.</p> <p>Video adapter (Intel Haswell-ULT Integrated audio controller, Intel HD 4400) is recognized as VESA, but supports 1600x900 resolution</p> <p>FN and functional "keys" work in general.</p> <p>Wireless adapter (Intel Wireless-N 7260) doesn't work</p> <p>Trackpad seems to be too sensitive and behaves strange</p>	Alexander Pyhalov
Lenovo	ThinkPad Edge E335	yes, oi_151a5 - oi_151a7	<p>The laptop has no CD drive but can boot off a USB device; to install OI I used a USB HDD with grub4dos in first partition booting an oi_151a5 ISO image and a second 1GB partition with the USB image. Note that the right (yellow USB 2.0) port MUST be used during such setup.</p> <p>Gigabit Ethernet (Realtek) works, especially (more stable) with an updated gani driver from <a href="#">Free NIC drivers for OpenSolaris</a> project. WiFi (Broadcom BCM4313) works with updated NDIS drivers (see source tarball in <a href="https://www.illumos.org/issues/3367">https://www.illumos.org/issues/3367</a>) based on bcmwl5 64-bit variant of specific Windows driver versions, this supports WEP only. SATA support is strange (sometimes works, sometimes doesn't), so Compatibility mode (IDE) set via BIOS is preferential. USB3 (XHCI) does not work, those two left ports don't even power up a mouse. The USB2 port (right side) works, also with a USB hub. Battery status and model shown OK. Card reader not visible (probably hooked to USB3 chip).</p> <p>Sound system includes several devices (Realtek audio powering the speakers/mini-jack, and AMD Radeon HDMI audio), both driven as audiohd; in my case Realtek was detected as dsp1/mixer1/audio1/etc. and I had to replace the links (/dev/dsp /dev/audio /dev/mixer etc.) to force it to be used for sound by default. ALSA audio driver mode works, but with hiccups; OSS and SunAudio play music okay, but quite a bit too quiet in my testing (like 10% of the volume on the same system under another OS).</p> <p>Video adapter (AMD Vision E2 APU including the CPU and Radeon GPU) is not recognized as a "radeon" by "modload /kernel/drv/(amd64)/radeon" nor by X11, but works in correct resolution (1366*768) as "vgatext". Heavy video performs poorly (movies, videocamera tests), but during normal work /reading/browsing/development lags are nearly unnoticeable.</p> <p>NOTE: The keyboard does not include such keys as Pause/Break and SysRQ/ScrLck. Some can be emulated (Fn+P, Fn+B, etc.), but I did not manage to find all of them. There is also only a power LED indicator, so you don't see HDD working, CAPS lock, etc. NumLock and at least an emulated numeric keypad are missing altogether.</p> <p>According to repairs docs, some variants of this laptop model can include an additional MiniPCI socket for WAN (3G modem) or mSATA SSD; my laptop does not have this feature soldered on (or I failed to find it).</p>	Jim Klimov
Lenovo	Thinkpad L470	yes		
Lenovo	ThinkCenter m91p	yes		Aurélien Larcher
Lenovo	Thinkpad P70	yes		
Lenovo	ThinkPad T60	yes		Milan Jurik
Lenovo	Thinkpad T430	yes		

Lenovo	ThinkPad T520	yes, oi151a8	The Intel Wifi Link 1000 and 6300 do NOT work. The NIC is an Intel 82579LM works well.  The NVidia GPU works well with the nvidia driver.  USB3 is not supported by illumos, and therefore don't expect it to work.  eSATA port works fine, but you'll have to use cfgadm to "reconfigure" the device so it picks up the plugged in disk.	Josef "Jeff" Sipek
Lenovo	ThinkPad T520 (4240-5NG)	yes	oi_151a8/hipster: No support for Realtek RTL8188CE 802.11b/g/n WiFi Adapter. No support for Integrated Intel VGA (generic VGA driver is used - 1024x768 only).	Marcel Telka
Lenovo	ThinkPad T578	yes	The Intel Corporation Centrino Wireless-N 1000 does NOT work. As noted for T520 it is not supported by Illumos.	Logan Bruns
Lenovo	ThinkPad W520	oi_151a	Nvidia Quadro 1000m and Intel Centrino Ultimate-N 6300 (3x3 AGN). USB 3 interface NOT SUPPORTED, use USB 2 port at rear	Cameron Jones
Lenovo	ThinkPad X220	yes OI 2017.10	Graphics Intel HD 3000 (Sandy Bridge) suffers from bug <a href="#">8049</a> on the laptop's primary display if intel Xorg driver is used (vesa is fine but the display then has non-native 1024x768 resolution), but VGA (D-Sub) to external display works correctly. Intel 82579LM Ethernet controller works with e1000g driver. Wifi Intel Centrino Advanced-N 6205 is attached to iwn driver but I did not test it so far (I don't see any wi-fi networks). Audio Intel HDA from C200 chipset works with audiobd driver. Touchpad, trackpoint, keyboard and USB mouse work. Volume & other buttons don't work.	Michal Nowak
Multirama-HT	Xpress Book			Apostolos Syropoulos
Panasonic	Toughbook Cf-18	oi_151a5 /a7	Works, with VESA graphics driver. No Wacom driver for Xorg. Audio works through headphone output, no internal speaker. Disable system bell to avoid freezes. No 56k modem. ACPI works for battery status, no brightness adjustment. Networking and Wifi work.	Bryan Lotti
Sony	VAIO VGN-S3XP		cardbus does not work. nvidia driver does not fully support NV6200 Go chipset.	Matt Wilby
System76	Bonobo Extreme	yes, oi_151a8		Nripendra Khan
System76	Galago UltraPro	yes, oi_151a8	Driver: VESA	Ankita Davis
Toshiba	Satellite L855 (PSKACE)	no, OI 2018.04	AMD Radeon HD 7670M Graphics requires KMS driver, which we don't have, so VESA only. Unfortunately display's native resolution is 1366x768 but the this resolution is not one of VESA modes, so 1024x768 or 800x600 has to be used, which renders the screen blurry. HDMI nor VGA (D-Sub) work.  Integrated Ethernet controller Atheros AR8161 is not supported, nor is Atheros AR9485 mini-PCI WLAN.  What works: ACPI, battery statistics, chipset in general (Intel C216), sound (Intel HDA), SATA disks in AHCI mode, VT-x (tested in illumos KVM), touchpad, USB (both EHCI & xHCI) for input devices and storage.	Michal Nowak
Lenovo	T530	hipster /illumOS OI 2018.10	NVidia NVS 5400M, Intel Centrino Advanced-N 6205 (taylor peak)(iwn), Intel 82579LM (ethernet/gigabit/e1000g) Everything works, even integrated camera	Espen Martinsen

## Legacy laptops known to work with Oracle Solaris 11.x

See [Oracle Solaris 11.3 HCL \(laptops\)](#) for model-specific notes for each laptop.

Manufacturer	Model	Notes and/or specific usage instructions	Certified
Acer	Aspire One		
Acer	Aspire one ZG5		
Dell	Inspiron 6000		
Dell	Latitude D400		
Dell	Latitude D610		
Dell	Latitude D620		
Dell	Latitude D800		
Dell	Latitude D810		
Dell	Latitude E6320		✓
Dell	Latitude E6420		✓
Dell	Precision M2300		
Fujitsu	LifeBook S6120		
Hewlett-Packard	Pavilion dv6700 CTO		
Lenovo	B470A-IFI		
Lenovo	E680		
Lenovo	Soleil E680A		
Lenovo	ThinkPad T410		
Lenovo	ThinkPad T420		
Lenovo	ThinkPad T440p		✓
Lenovo	ThinkPad T60		
Lenovo	ThinkPad X200 (7458AJ4)		

Lenovo	ThinkPad X220		
Lenovo	ThinkPad X240		✓
Lenovo	ThinkPad X301 (2774HG1)		
Lenovo	ThinkPad X61 7673LN2		
Lenovo	Zhaoyang E290G		
Lenovo	Zhaoyang K41A		
Lenovo	Zhaoyang K42A		
MSI	X340		
Panasonic	CF-AX2		
Sony	VAIO PCG-GRV670P		
Sony	VAIO VGN-FE890		
Sony	VAIO VGN-Z540N		
Toshiba	NB205-N210		
Toshiba	Portege R600 (PPR65U-001001S1)		
Toshiba	Portege R830		✓
Toshiba	Portege Z30-A		✓
Toshiba	Tecra M1		
Toshiba	Tecra M10 (PTMB7U-002001S1)		
Toshiba	Tecra R840		✓
Toshiba	Tecra Z40-A		✓