

# ideapad 330 (15") Intel Platform Specifications

Product Specifications Reference (PSREF)

Processor	<b>15IKB:</b> Intel® Pentium® Processor or 7th Generation Intel Core™ i5 / i7 Processor							Chipset Memory <i>15ICH:</i> Intel HM370 chipset; <i>others:</i> Intel SoC (System on Chip) platform <i>15IKB&amp;IKBR:</i> 16GB max / 2133MHz DDR4, dual-channel capable, optional 4GB memory soldered to systemboard, one DDR4 SO-DIMM socket <i>15ICH:</i> 16GB max / 2400MHz DDR4, dual-channel capable, optional 4GB memory soldered to systemboard, one DDR4 SO-DIMM socket <i>15ICN:</i> 12GB max / 2400MHz DDR4, dual-channel capable, optional 4GB memory soldered to systemboard, one DDR4 SO-DIMM socket <i>15IGM:</i> 8GB max / 2400MHz DDR4, one DDR4 SO-DIMM socket		
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Processor Graphics	
	Pen 4415U	2	4	2.3 GHz	-	2MB	DDR4-2133		Intel HD Graphics 610	
	i3-7100U			2.4 GHz	-	3MB			Intel HD Graphics 620	
	i3-7130U			2.7 GHz	-					
	i5-7200U			2.5 GHz	3.1 GHz					
	i7-7500U			2.7 GHz	3.5 GHz					4MB
	<b>15IKBR:</b> 7th or 8th Generation Intel Core i3 / i5 / i7 Processor								Display <i>Some:</i> 15.6" (396mm) HD (1366x768), anti-glare or glossy, LED backlight, 200 nits, 16:9 aspect ratio <i>Some:</i> 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio Multi-touch (opt) On-cell touch, supports 10-finger multi-touch Storage <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide <i>Some:</i> M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s <i>Some:</i> Intel Optane™ Memory, 16GB, M.2 Optical (optional) DVD burner, 9.0mm high, fixed, tray-in Ethernet 10/100M or 100/1000M Ethernet connection WLAN <i>One of the following, configurable by model:</i> • 11ac, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card • 11ac, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 Card Bluetooth™ Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter Media reader 4-in-1 reader (MMC, SD, SDHC, SDXC) Ports <i>15IGM:</i> one USB 2.0, one USB 3.1 Gen 1 (USB 3.0), audio combo jack, security keyhole, Ethernet (RJ-45), HDMI 1.4a, AC power adapter jack <i>Others:</i> two USB 3.1 Gen 1 (USB 3.0), one USB 3.1 Type-C Gen 1, audio combo jack, Ethernet (RJ-45), HDMI 1.4a, AC power adapter jack, security keyhole Dimensions <i>WxDxH:</i> 14.89" x 10.24" x 0.9"; 378mm x 260mm x 22.9mm Weight 2.2 kg (4.85 lb) Case color Blizzard white, platinum grey, onyx black, mid night blue, coral red, plum purple, or chocolate brown Case material PC/ABS plastic Camera <i>Some:</i> 0.3MP resolution, fixed focus, with single microphone <i>Some:</i> 720p HD, 1.0MP resolution, fixed focus, with dual array microphone <i>Some:</i> 720p HD, 1.0MP resolution, fixed focus, with single microphone Audio support HD Audio, stereo speakers with Dolby® Audio Certification, 1.5W x 2 / single microphone, audio combo jack Keyboard 6-row, multimedia Fn keys, numeric keypad, optional backlight Touchpad One-piece multi-touch touchpad Security Supervisor password, power-on password, hard-disk password (only Non-Intel Optane memory model), security keyhole Security chip Firmware TPM 2.0 Fingerprint reader None Battery Integrated Li-ion 30Wh, 35Wh or 45Wh battery Max battery life <i>MobileMark® 2014:</i> <i>15IKB / IKBR / 15IGM:</i> 5.5 hrs (30Wh) / 6 hrs (35Wh) <i>15ICH:</i> 8 hrs (45Wh) <i>15ICN:</i> 4.5 hrs (35Wh) AC adapter <i>15ICH:</i> 90W slim tip AC adapter <i>Others:</i> 45W or 65W slim tip AC adapter Preload (opt) Windows® 10 Home 64 or Windows 10 Pro 64 Limited warranty <i>One of the following, configurable by model:</i> • 1-year Mail-in repair service • 1-year depot repair service • 2-year/1-yr battery depot repair service Environment ErP Lot 3; ENERGY STAR® 6.1; RoHS-compliant	
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types			Processor Graphics
	i3-7020U	2	4	2.3 GHz	-	3MB	DDR4-2133			Intel HD Graphics 620
	i3-8130U			2.2 GHz	3.4 GHz	4MB				Intel UHD Graphics 620
	i5-8250U	4	8	1.6 GHz	3.4 GHz	6MB	DDR4-2400			Intel UHD Graphics 630
	i7-8550U			1.8 GHz	4.0 GHz	8MB				
	<b>15ICH:</b> 8th Generation Intel Core i5 / i7 Processor									Display <i>Some:</i> 15.6" (396mm) HD (1366x768), anti-glare or glossy, LED backlight, 200 nits, 16:9 aspect ratio <i>Some:</i> 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio Multi-touch (opt) On-cell touch, supports 10-finger multi-touch Storage <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide <i>Some:</i> M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s <i>Some:</i> Intel Optane™ Memory, 16GB, M.2 Optical (optional) DVD burner, 9.0mm high, fixed, tray-in Ethernet 10/100M or 100/1000M Ethernet connection WLAN <i>One of the following, configurable by model:</i> • 11ac, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card • 11ac, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 Card Bluetooth™ Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter Media reader 4-in-1 reader (MMC, SD, SDHC, SDXC) Ports <i>15IGM:</i> one USB 2.0, one USB 3.1 Gen 1 (USB 3.0), audio combo jack, security keyhole, Ethernet (RJ-45), HDMI 1.4a, AC power adapter jack <i>Others:</i> two USB 3.1 Gen 1 (USB 3.0), one USB 3.1 Type-C Gen 1, audio combo jack, Ethernet (RJ-45), HDMI 1.4a, AC power adapter jack, security keyhole Dimensions <i>WxDxH:</i> 14.89" x 10.24" x 0.9"; 378mm x 260mm x 22.9mm Weight 2.2 kg (4.85 lb) Case color Blizzard white, platinum grey, onyx black, mid night blue, coral red, plum purple, or chocolate brown Case material PC/ABS plastic Camera <i>Some:</i> 0.3MP resolution, fixed focus, with single microphone <i>Some:</i> 720p HD, 1.0MP resolution, fixed focus, with dual array microphone <i>Some:</i> 720p HD, 1.0MP resolution, fixed focus, with single microphone Audio support HD Audio, stereo speakers with Dolby® Audio Certification, 1.5W x 2 / single microphone, audio combo jack Keyboard 6-row, multimedia Fn keys, numeric keypad, optional backlight Touchpad One-piece multi-touch touchpad Security Supervisor password, power-on password, hard-disk password (only Non-Intel Optane memory model), security keyhole Security chip Firmware TPM 2.0 Fingerprint reader None Battery Integrated Li-ion 30Wh, 35Wh or 45Wh battery Max battery life <i>MobileMark® 2014:</i> <i>15IKB / IKBR / 15IGM:</i> 5.5 hrs (30Wh) / 6 hrs (35Wh) <i>15ICH:</i> 8 hrs (45Wh) <i>15ICN:</i> 4.5 hrs (35Wh) AC adapter <i>15ICH:</i> 90W slim tip AC adapter <i>Others:</i> 45W or 65W slim tip AC adapter Preload (opt) Windows® 10 Home 64 or Windows 10 Pro 64 Limited warranty <i>One of the following, configurable by model:</i> • 1-year Mail-in repair service • 1-year depot repair service • 2-year/1-yr battery depot repair service Environment ErP Lot 3; ENERGY STAR® 6.1; RoHS-compliant
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types			
i5-8300H	4	8	2.3 GHz	4.0 GHz	8MB	DDR4-2400	Intel UHD Graphics 630			
i7-8750H			2.2 GHz	4.1 GHz	9MB					
<b>15ICN:</b> 8th Generation Intel Core i3 Processor							Display <i>Some:</i> 15.6" (396mm) HD (1366x768), anti-glare or glossy, LED backlight, 200 nits, 16:9 aspect ratio <i>Some:</i> 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio Multi-touch (opt) On-cell touch, supports 10-finger multi-touch Storage <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide <i>Some:</i> M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s <i>Some:</i> Intel Optane™ Memory, 16GB, M.2 Optical (optional) DVD burner, 9.0mm high, fixed, tray-in Ethernet 10/100M or 100/1000M Ethernet connection WLAN <i>One of the following, configurable by model:</i> • 11ac, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card • 11ac, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 Card Bluetooth™ Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter Media reader 4-in-1 reader (MMC, SD, SDHC, SDXC) Ports <i>15IGM:</i> one USB 2.0, one USB 3.1 Gen 1 (USB 3.0), audio combo jack, security keyhole, Ethernet (RJ-45), HDMI 1.4a, AC power adapter jack <i>Others:</i> two USB 3.1 Gen 1 (USB 3.0), one USB 3.1 Type-C Gen 1, audio combo jack, Ethernet (RJ-45), HDMI 1.4a, AC power adapter jack, security keyhole Dimensions <i>WxDxH:</i> 14.89" x 10.24" x 0.9"; 378mm x 260mm x 22.9mm Weight 2.2 kg (4.85 lb) Case color Blizzard white, platinum grey, onyx black, mid night blue, coral red, plum purple, or chocolate brown Case material PC/ABS plastic Camera <i>Some:</i> 0.3MP resolution, fixed focus, with single microphone <i>Some:</i> 720p HD, 1.0MP resolution, fixed focus, with dual array microphone <i>Some:</i> 720p HD, 1.0MP resolution, fixed focus, with single microphone Audio support HD Audio, stereo speakers with Dolby® Audio Certification, 1.5W x 2 / single microphone, audio combo jack Keyboard 6-row, multimedia Fn keys, numeric keypad, optional backlight Touchpad One-piece multi-touch touchpad Security Supervisor password, power-on password, hard-disk password (only Non-Intel Optane memory model), security keyhole Security chip Firmware TPM 2.0 Fingerprint reader None Battery Integrated Li-ion 30Wh, 35Wh or 45Wh battery Max battery life <i>MobileMark® 2014:</i> <i>15IKB / IKBR / 15IGM:</i> 5.5 hrs (30Wh) / 6 hrs (35Wh) <i>15ICH:</i> 8 hrs (45Wh) <i>15ICN:</i> 4.5 hrs (35Wh) AC adapter <i>15ICH:</i> 90W slim tip AC adapter <i>Others:</i> 45W or 65W slim tip AC adapter Preload (opt) Windows® 10 Home 64 or Windows 10 Pro 64 Limited warranty <i>One of the following, configurable by model:</i> • 1-year Mail-in repair service • 1-year depot repair service • 2-year/1-yr battery depot repair service Environment ErP Lot 3; ENERGY STAR® 6.1; RoHS-compliant			
Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Processor Graphics		
i3-8121U	2	4	2.2 GHz	3.2 GHz	4MB	DDR4-2400		-		
<b>15IGM:</b> Intel Celeron® Processor, Intel Pentium Processor or 6th Generation Intel Core i3 Processor										
Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Processor Graphics		
Cel N4000	2	2	1.1 GHz	2.6 GHz	4MB	DDR4-2400		Intel UHD Graphics 600		
Cel N4100			1.1 GHz	2.4 GHz						
Pen N5000	4	4	1.1 GHz	2.7 GHz	4MB	DDR4-2400		Intel UHD Graphics 605		
i3-6006U			2.0 GHz	-				3MB	DDR4-2133	

Graphics	<b>15IKB:</b> Intel HD Graphics 610 / 620 in processor only, Intel HD Graphics 610 / 620 in processor and AMD Radeon™ 530 (2GB or 4GB GDDR5 memory), or Intel HD Graphics 610 / 620 in processor and NVIDIA GeForce MX 110 / MX 130 (2GB GDDR5 memory)						
	<b>15IKBR:</b> Intel HD Graphics 620 or UHD Graphics 620 in processor only, Intel HD Graphics 620 or UHD Graphics 620 in processor and AMD Radeon 530 (2GB or 4GB GDDR5 memory), Intel HD Graphics 620 or UHD Graphics 620 in processor and NVIDIA GeForce MX 150 (2GB or 4GB GDDR5 memory)						
	<b>15ICH:</b> Intel UHD Graphics 630 and NVIDIA® GeForce® GTX 1050 (2GB or 4GB GDDR5 memory)						
	<b>15ICN:</b> AMD Radeon 540 (2GB GDDR5 memory)						
	<b>15IGM:</b> Intel HD Graphics 520, Intel UHD Graphics 600 or UHD Graphics 605 in processor only, Intel UHD Graphics 600 or UHD Graphics 605 in processor and AMD Radeon 530 (2GB GDDR5 memory)						
	supports external digital monitor via HDMI; supports two independent displays; Max resolution: 1920x1080@60Hz (HDMI)						