

# ideapad 320 (15"), 320 (15" Touch) Platform Specifications

Product Specifications Reference (PSREF)

Processor	<b>320-15ABR:</b> AMD A-Series APUs and FX™ APUs							Graphics	<b>320-15ABR:</b> AMD Radeon R5 or R7 Graphics in processor only, or AMD Radeon R5 or R7 Graphics in processor and AMD Radeon 530 (2GB or 4GB GDDR5 memory)	
	Processor Number	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics		<b>320-15AST:</b> AMD Radeon R2, R3, R4, or R5 Graphics in processor only, or AMD Radeon R2, R3, R4, or R5 Graphics in processor and AMD Radeon 530 (2GB or 4GB GDDR5 memory);	
	A10-9620P	4	2.5 GHz	3.4 GHz	2MB	DDR4-1866	AMD Radeon™ R5 Graphics		<b>320-15IAP:</b> Intel HD Graphics 500 or 505 in processor only, or Intel HD Graphics 500 or 505 in processor and AMD Radeon 530 (2GB GDDR5 memory)	
	A12-9720P		2.7 GHz	3.6 GHz			AMD Radeon R7 Graphics		<b>320-15IKB:</b> Intel HD Graphics 520, 610, or 620 in processor only, or Intel HD Graphics 620 in processor and NVIDIA GeForce® 920MX (2GB GDDR5 memory), 940MX (2GB or 4GB GDDR5 memory), or AMD Radeon 530 (2GB or 4GB GDDR5 memory)	
	FX-9800P		2.7 GHz	3.6 GHz					<b>320 Touch-15IKB:</b> Intel HD Graphics 620 in processor only, or Intel HD Graphics 620 in processor and NVIDIA GeForce 940MX, 2GB or 4GB GDDR5 memory	
	<b>320-15AST:</b> AMD A-Series APUs and E-Series APUs									supports dual independent display; Max resolution: 1920x1080@60Hz (HDMI)
	Processor Number	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics		Storage	
	E2-9000	2	1.8 GHz	2.2 GHz		DDR4-1866	AMD Radeon R2 Graphics		<i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high	
	A4-9120		2.2 GHz	2.5 GHz			AMD Radeon R3 Graphics		<i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high	
	A6-9220		2.5 GHz	2.9 GHz	1MB	DDR4-2133	AMD Radeon R4 Graphics		<i>Some:</i> M.2 SSD / PCIe 3.0, 8Gb/s (320-15IKB only)	
A9-9420	3.0 GHz		3.6 GHz			AMD Radeon R5 Graphics	DVD burner, 9.0mm high, fixed, not removable, tray-in			
<b>320-15IAP:</b> Intel® Celeron® processor or Intel Pentium® Processor								Optical (optional)		
Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Display		
Cel N3350	2	2	1.1 GHz	2.4 GHz	2MB	DDR3L-1600	Intel HD Graphics 500	<i>Some:</i> 15.6" (396mm) HD (1366x768), glossy, LED backlight, 200 nits, 16:9 aspect ratio ( <b>320 Touch-15IKB</b> )		
Cel N3450	4	4	1.1 GHz	2.2 GHz			Intel HD Graphics 505	<i>Some:</i> 15.6" (396mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio		
Pen N4200	4	4	1.1 GHz	2.5 GHz				<i>Some:</i> 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio		
<b>320-15IKB:</b> 6th Generation Intel Core™ i3 / i5 / i7 Processor or								Multi-touch (opt)		
Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Ethernet		
i3-6006U	2	4	2.0 GHz	-	3MB	DDR4-2133	Intel HD Graphics 520	<b>320-15AST &amp; 15IAP:</b> 10/100M Ethernet connection		
i5-6200U			2.3 GHz	2.8 GHz	3MB			<i>Others:</i> Gigabit Ethernet connection		
i7-6500U			2.5 GHz	3.1 GHz	4MB					
Intel Pentium Processor or 7th Generation Intel Core i3 / i5 / i7 Processor									WLAN Bluetooth™	
Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Media reader Ports		
Pen 4415U	2	4	2.3 GHz	-	2MB	DDR4-2133	Intel HD Graphics 610	4-in-1 reader (MMC, SD, SDHC, SDXC)		
i3-7100U			2.4 GHz	-	3MB		Intel HD Graphics 620	<b>320-15AST &amp; 15IAP:</b> one USB 3.1 Gen 1 (USB 3.0), one USB 2.0		
i5-7200U			2.5 GHz	3.1 GHz	3MB			<i>Others:</i> two USB 3.1 Gen 1 (USB 3.0), one USB 3.1 Type-C Gen 1		
i7-7500U			2.7 GHz	3.5 GHz	4MB			<i>All:</i> HDMI 1.4b, Ethernet (RJ-45)		
<b>320 Touch-15IKB:</b> 7th Generation Intel Core i3 / i5 / i7 Processor								Dimensions		
Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Weight		
i3-7100U	2	4	2.4 GHz	-	3MB	DDR4-2133	Intel HD Graphics 620	2.2 kg (4.85 lb)		
i5-7200U			2.5 GHz	3.1 GHz	3MB			Case color		
i7-7500U			2.7 GHz	3.5 GHz	4MB			Onyx black, blizzard white, platinum grey, denim blue, plum purple, or coral red (for fingerprint reader model, only platinum grey and Onyx black are available)		
							Case material			
								Camera		
								Audio support		
								Security		
								Security chip		
								Fingerprint reader		
								Battery		
								Max battery life		
								AC adapter		
								Preload		
								Limited warranty		
								Environment		
Chipset	Intel or AMD SoC (System on Chip) platform									
Memory	<b>320-15ABR:</b> 16GB max / 1866MHz DDR4, dual-channel capable, optional 4GB memory soldered to systemboard, one DDR4 SO-DIMM socket									
	<b>320-15AST:</b> 8GB max / 2133MHz DDR4, one DDR4 SO-DIMM socket									
	<b>320-15IAP:</b> 8GB max / 1600MHz DDR3L, one DDR3L SO-DIMM socket									
	<i>Others:</i> 16GB max / 2133MHz DDR4, dual-channel capable, optional 4GB memory soldered to systemboard, one DDR4 SO-DIMM socket									
	* System clocks down for processors with lower memory controller									
Keyboard	6-row, multimedia Fn keys, numeric keypad									
Touchpad	One-piece multi-touch touchpad									