



Lenovo ThinkPad 13 (2nd Gen) Intel Core i5 i5-7300U Kuwaderno 33,8 sentimetro (13.3") HD 4 GB DDR4-SDRAM 180 GB SSD Windows 10 Pro Itim

Brand : Lenovo

Product family: ThinkPad

Product code: 20J10024US

Product name : ThinkPad 13
(2nd Gen)

Lenovo ThinkPad 13 (2nd Gen). Uri ng produkto: Kuwaderno, Salik ng form: kabibi. Pamilya ng processor: Intel Core i5, Modelo ng processor: i5-7300U, Prikwensiya ng processor: 2,6 GHz. Ipakita ang dayagonal: 33,8 sentimetro (13.3"), Uri ng HD: HD, Resolusyon ng display: 1366 x 768 (mga) pixel. Panloob na memory: 4 GB, Uri ng panloob na memory: DDR4-SDRAM. Kabuuang kapasidad ng storage: 180 GB, Storage media: SSD. On-board na modelo ng graphics card: Intel HD Graphics 620. Naka-install ang operating system: Windows 10 Pro. Kulay ng produkto: Itim



Disenyo		Mga port at interface	
Uri ng produkto *	Kuwaderno	USB Sleep-and-Charge	✓
Kulay ng produkto *	Itim	Mga port ng USB Sleep-and-Charge port	1
Salik ng form *	kabibi	Pagganap	
Materyal sa pabahay	Acrylonitrile butadiene styrene (ABS)	Chipset ng motherboard	Intel SoC
Pagpoposisyon sa merkado	negosyo	Accelerometer	✗
Display		Keyboard	
Ipakita ang dayagonal *	33,8 sentimetro (13.3")	Aparato sa pagturo	ThinkPad UltraNav
Resolusyon ng display *	1366 x 768 (mga) pixel	Numeric na keypad *	✗
Touchscreen *	✗	Mga key sa Windows	✓
Uri ng HD	HD	Software	
LED backlight	✓	Arkitektura ng operating system	64-bit
Native na aspect ratio	16:9	Naka-install ang operating system *	Windows 10 Pro
Panlabas na display	Matt	Mga espesyal na feature ng processor	
Hugis ng screen	Flat screen	Intel® My WiFi Technology (Intel® MWT)	✓
Contrast ratio (karaniwan)	500:1	Intel® Smart Response Technology	✓
Processor		Intel® Identity Protection Technology (Intel® IPT)	✓
Gumagawa ng processor *	Intel	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Pamilya ng processor *	Intel Core i5	Intel® Turbo Boost Technology	2.0
Henerasyon ng processor	Intel Core i5-7xxx	Pinahusay na Intel SpeedStep Technology	✓
Modelo ng processor *	i5-7300U	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Mga core ng processor	2	Intel Clear Video Technology	✓
Mga thread ng processor	4	Intel® Quick Sync Video Technology	✓
Prikwensiya ng pagpapalakas ng processor	3,5 GHz	Intel Flex Memory Access	✓
Prikwensiya ng processor *	2,6 GHz		
Rate ng bus ng system	4 GT/s		
Cache ng processor	3 MB		
Uri ng cache ng processor	Smart Cache		
Socket ng processor	BGA 1356		

Processor		Mga espesyal na feature ng processor	
Lithography ng processor	14 nm	Intel® AES Bagong Mga Tagubilin (Intel® AES-NI)	✓
Mga mode ng pagpapatakbo ng processor	64-bit	Intel Trusted Execution Technology	✓
Serye ng processor	Intel Core i5-7300 Mobile Series	Intel Enhanced Halt State	✓
Codename ng processor	Kaby Lake	Intel VT-x na may Extended Page Tables (EPT)	✓
Uri ng bus	OPI	Intel® Secure Key	✓
Paghakbang	H0	Intel TSX-NI	✓
Thermal Design Power (TDP)	15 W	Intel Stable Image Platform Program (SIPP)	✓
Nako-configure na prikwensiya ng TDP-up	2,7 GHz	Intel® OS Guard	✓
Nako-configure na TDP-up	25 W	Mga Extension ng Intel Software Guard (Intel SGX)	✓
Nako-configure na TDP-down	7,5 W	Intel® Clear Video Technology para sa Mga Mobile Internet Device (Intel CVT para sa MID)	✓
Nako-configure na prikwensiya ng TDP-down	0,8 GHz	Intel 64	✓
Tjunction	100 °C	Ipatupad ang Disable Bit	✓
Maximum na bilang ng mga linya ng PCI Express	12	Idle States	✓
Bersyon ng mga slot ng PCI Express	3.0	Thermal Monitoring Technologies	✓
Mga pagsasaayos ng PCI Express	1x2+2x1, 1x4, 2x2, 4x1	Laki ng package ng processor	42 X 24 milimetro
Suportado ng processor ng ECC	✗	Mga suportadong set ng pagtuturo	AVX 2.0, SSE4.1, SSE4.2
Memory		Code ng processor	SR340
Panloob na memory *	4 GB	Configuration ng CPU (max)	1
Uri ng panloob na memory	DDR4-SDRAM	Available ang mga naka-embed na opsyon	✓
Bilis ng orasan ng memory	2133 MHz	Intel Virtualization Technology para sa Nakadirektang I/O (VT-d)	✓
Salik ng anyo ng memory	SO-DIMM	Bersyon ng Intel Identity Protection Technology	1,00
Mga puwang ng memory	2x SO-DIMM	Bersyon ng Intel Smart Response Technology	1,00
Maximum na panloob na memory *	32 GB	Bersyon ng Intel Stable Image Platform Program (SIPP)	1,00
Storage		Bersyon ng Intel Secure Key Technology	1,00
Kabuuang kapasidad ng storage *	180 GB	Bersyon ng Intel TSX-NI	1,00
Storage media *	SSD	Intel Virtualization Technology (VT-x)	✓
Bilang ng mga SSD na naka-install	1	Processor ARK ID	97472
Kapasidad ng SSD	180 GB	Walang salungatan na processor	✓
Form factor ng SSD	M.2	Bateria	
Uri ng optical drive *	✗	Teknolohiya ng baterya	Lithium Polymer (LiPo)
Isinama ang card reader	✓	Bilang ng mga cell ng baterya	3
Mga katugmang memory card	MMC, SD, SDHC, SDXC	Kapasidad ng baterya *	42 Wh
Mga graphic		Tagal ng baterya (max)	14,56 h
Discrete na modelo ng graphics card *	Hindi magagamit	Kuryente	
On-board na graphics card *	✓	Kuryente ng AC adapter	45 W
Discrete na graphics card *	✗	Dalas ng AC adapter	50 - 60 Hz
Pamilya ng on-board ng graphics card	Intel HD Graphics	Boltahe ng input ng AC adapter	100 - 240 V
On-board na modelo ng graphics card *	Intel HD Graphics 620	DC-in jack	✓
On-board na prikwensiya ng graphics card base	300 MHz	Seguridad	
On-board na prikwensiya ng graphics card dynamic (max)	1100 MHz	Puwang ng lock ng cable	✓
Maximum na memory ng on-board graphics card	32 GB	Reader ng fingerprint	✓
Bersyon ng DirectX sa on-board na graphics card	12.0	Trusted Platform Module (TPM)	✓
Bersyon ng OpenGL ng on-board na graphics card	4.4	Proteksyon ng password	✓
On-board na graphics card ID	0x5916	Uri ng proteksyon ng password	HDD, Power on, Superbisor
Audio		Mga sertipiko	
Bilang ng mga built-in na speaker	2	Compliance certificates	RoHS
Lakas ng speaker	2 W		
Built-in na mikropono	✓		

Camera		Pagpapanatili	
Camera sa harap	✓	Mga sertipiko ng pagpapanatili	EPEAT Ginto, ENERGY STAR
Resolusyon ng camera sa harap	1280 x 720 (mga) pixel	Timbang at sukat	
Front camera signal format	720p	Lapad	322,4 milimetro
Network		Lalim	222,8 milimetro
Wi-Fi	✓	Height	19,8 milimetro
Mga pamantayan ng Wi-Fi	802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n)	Timbang *	1,44 kilo
LAN ng ethernet	✗	Nilalaman ng packaging	
Bluetooth	✓	May kasamang AC adapter *	✓
Bersyon ng bluetooth	4.1	Manwal	✓
Mga port at interface		Mabilis na gabay sa pagsisimula	✓
Dami ng Type-A port na USB 3.2 Gen 1 (3.1 Gen 1) *	3	May kasamang kurdon ng kuryente	✓
Dami ng mga Type-C port na USB 3.2 Gen 1 (3.1 Gen 1) *	1	Iba pang mga feature	
Dami ng mga HDMI port *	1	LightScribe	✗
DVI na port	✗		
Nakapasok ang mikropono	✗		
Combo headphone/mic port	✓		
Connector ng pag-dock	✓		

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