

ASUS X455L-WX012H laptop Intel® Core™ i5 i5-4210U 35,6 cm (14") 4 GB DDR3L-SDRAM 500 GB HDD NVIDIA® GeForce® GT 820M Windows 8.1 Black, Silver



Brand : ASUS

Product code: X455L-WX012H

Product name : X455L-WX012H

Intel Core i5-4210U (3M Cache, up to 2.70 GHz), 4GB DDR3, 500GB HDD, Intel HD Graphics 4400 + NVIDIA GeForce GT 820M, Super Multi DVD, Gigabit Ethernet, 802.11b/g/n, WebCam, Windows 8.1 ASUS X455L-WX012H. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i5, Processor model: i5-4210U, Processor frequency: 1,7 GHz. Display diagonal: 35,6 cm (14"), Display resolution: 1366 x 768 pixels. Internal memory: 4 GB, Internal memory type: DDR3L-SDRAM. Total storage capacity: 500 GB, Storage media: HDD, Optical drive type: DVD Super Multi. On-board graphics card model: Intel® HD Graphics 4400. Operating system installed: Windows 8.1. Product colour: Black, Silver

Design		Processor special features	
Product type *	Laptop	Intel® My WiFi Technology (Intel® MWT)	✗
Product colour *	Black, Silver	Intel Smart Connect Technology	✓
Form factor *	Clamshell	Intel® Anti-Theft Technology (Intel® AT)	✓
Display		Intel® Rapid Start Technology	✗
Display diagonal *	35.6 cm (14")	Intel® Smart Response Technology	✗
Display resolution *	1366 x 768 pixels	Intel® Identity Protection Technology (Intel® IPT)	✓
LED backlight	✓	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Native aspect ratio	16:9	Intel® Turbo Boost Technology	2.0
Processor		Intel® Small Business Advantage (Intel® SBA)	✗
Processor manufacturer *	Intel	Intel® Matrix Storage Technology (Intel® MST)	✗
Processor family *	Intel® Core™ i5	Intel® High Definition Audio (Intel® HD Audio)	✓
Processor generation	4th gen Intel® Core™ i5	Intel® Active Management Technology (Intel® AMT)	✗
Processor model *	i5-4210U	Enhanced Intel SpeedStep Technology	✓
Processor cores	2	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor threads	4	Intel Clear Video Technology	✗
Processor boost frequency	2.7 GHz	Intel® InTru™ 3D Technology	✓
Processor frequency *	1.7 GHz	Intel® Insider™	✓
System bus rate	5 GT/s	Intel® Quick Sync Video Technology	✓
Processor cache	3 MB	Intel Flex Memory Access	✗
Processor cache type	Smart Cache	Intel® Smart Cache	✓
Processor socket	BGA 1168		
Processor lithography	22 nm		
Processor operating modes	64-bit		
Processor series	Intel Core i5-4200 Mobile series		
Processor codename	Haswell		
Bus type	DMI2		
FSB Parity	✗		
Stepping	D0		

Processor		Processor special features	
Thermal Design Power (TDP)	15 W	Intel® AES New Instructions (Intel® AES-NI)	✓
Tjunction	100 °C	Intel Trusted Execution Technology	✗
Maximum number of PCI Express lanes	12	Intel Enhanced Halt State	✓
PCI Express slots version	2.0	Intel VT-x with Extended Page Tables (EPT)	✓
PCI Express configurations	4x1, 2x4	Intel Demand Based Switching	✗
ECC supported by processor	✗	Intel® Secure Key	✓
Memory		Intel TSX-NI	✗
Internal memory *	4 GB	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Internal memory type	DDR3L-SDRAM	Intel 64	✓
Memory clock speed	1600 MHz	Execute Disable Bit	✓
Maximum internal memory *	8 GB	Idle States	✓
Storage		Thermal Monitoring Technologies	✓
Total storage capacity *	500 GB	Processor package size	40 x 24 x 1.5 mm
Storage media *	HDD	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Number of HDDs installed	1	Processor code	SR1EF
HDD capacity	5 TB	CPU configuration (max)	1
HDD speed	5400 RPM	Embedded options available	✗
HDD size	2.5"	UART	✓
Optical drive type *	DVD Super Multi	Intel Virtualization Technology for Directed I/O (VT-d)	✗
Card reader integrated	✓	Intel Smart Connect Technology version	1.00
Compatible memory cards	SD, SDHC, SDXC	Intel Identity Protection Technology version	1.00
Graphics		Intel Secure Key Technology version	1.00
Discrete graphics card model *	NVIDIA® GeForce® GT 820M	Intel ME Firmware Version	9.5
On-board graphics card *	✓	Intel TSX-NI version	0.00
Discrete graphics card *	✓	Intel Virtualization Technology (VT-x)	✓
On-board graphics card family	Intel® HD Graphics	Intel Dual Display Capable Technology	✗
On-board graphics card model *	Intel® HD Graphics 4400	Intel FDI Technology	✗
On-board graphics card base frequency	200 MHz	Intel Rapid Storage Technology	✓
On-board graphics card dynamic frequency (max)	1000 MHz	Intel Fast Memory Access	✗
Maximum on-board graphics card memory	1.74 GB	Processor ARK ID	81016
On-board graphics card DirectX version	12	Conflict-Free processor	✓
On-board graphics card ID	0xA16	Battery	
Number of discrete graphics cards installed	1	Battery technology	Lithium Polymer (LiPo)
Audio		Number of battery cells	2
Audio system	SonicMaster	Battery capacity *	37 Wh
Built-in microphone	✓	Power	
Camera		AC adapter power	65 W
Front camera	✓	AC adapter frequency	50 - 60 Hz
Network		AC adapter input voltage	100 - 240 V
Wi-Fi	✓	AC adapter output current	3.42 A
Wi-Fi standards	802.11g, 802.11b, Wi-Fi 4 (802.11n)	AC adapter output voltage	19 V
Ethernet LAN	✓	DC-in jack	✓
Ethernet LAN data rates	10,1000,100 Mbit/s	Security	
Bluetooth	✗	Cable lock slot	✓
Ports & interfaces		Cable lock slot type	Kensington
USB 2.0 ports quantity *	2	Password protection	✓
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	1	Password protection type	BIOS, HDD, User
Ethernet LAN (RJ-45) ports	1	Weight & dimensions	
HDMI ports quantity *	1	Width	348 mm
DVI port	✗		

Ports & interfaces		Weight & dimensions	
VGA (D-Sub) ports quantity	1	Depth	242.8 mm
S/PDIF out port	✗	Height	25.6 mm
Microphone in	✗	Weight *	2.1 kg
Combo headphone/mic port	✓	Packaging content	
Docking connector	✗	AC adapter included *	✓
ExpressCard slot	✗	Manual	✓
CardBus PCMCIA slot type	✗	Power cord included	✓
SmartCard slot	✗	Other features	
Total number of SATA connectors	4	Maximum internal memory (64-bit)	8 GB
Number of SATA III connectors	4	Intel® Virtualization Technology (Intel® VT)	VT-x
Keyboard			
Pointing device	Touchpad		
Numeric keypad *	✗		
Full-size keyboard	✓		
Windows keys	✓		
Software			
Operating system installed *	Windows 8.1		
Processor special features			
Intel® Wireless Display (Intel® WiDi)	✓		

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