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ASUS Chromebox CHROMEBOX3 Intel® Core™ i7 i7-8550U 4 GB DDR3L-SDRAM 32 GB SSD ChromeOS Mini PC Black

Brand : ASUS   **Product family:** Chromebox   **Product code:** 90MS01B1-M00460

Product name : CHROMEBOX3

- All-new Chromebox, powered by the latest 8th Generation Intel® Core™ processor
- Run thousands of Android app on Google Play with incredible performance
- Versatile USB 3.1 Gen 1 Type-C port for data transfer, power delivery and DisplayPort functionality
- Stay safe from viruses and malware with automatic system updates
- VESA-mount compatible for a tidy, clutter-free work area
- Easy setup and automatic software and security updates for protection from viruses and malware
Intel Core i7-8550U (8MB Cache, 1.80GHz), 4GB, 32GB SSD, Intel UHD Graphics 620, LAN, WLAN, Bluetooth, ChromeOS

Processor

Processor manufacturer *	Intel
Processor family *	Intel® Core™ i7
Processor generation	8th gen Intel® Core™ i7
Processor model *	i7-8550U
Processor cores	4
Processor threads	8
Processor boost frequency	4 GHz
Processor frequency *	1.8 GHz
Processor socket	BGA 1356
Processor cache	8 MB
System bus rate	4 GT/s
Bus type	OPI
Processor lithography	14 nm
Processor operating modes	64-bit
Processor codename	Kaby Lake R
Thermal Design Power (TDP)	15 W
Configurable TDP-up frequency	2 GHz
Configurable TDP-up	25 W
Configurable TDP-down	10 W
Configurable TDP-down frequency	0.8 GHz
Tjunction	100 °C
PCI Express slots version	3.0
Maximum number of PCI Express lanes	12
PCI Express configurations	1x2+2x1, 1x4, 2x2, 4x1
Number of processors installed	1
Stepping	Y0
Maximum internal memory supported by processor	32 GB
Memory types supported by processor	DDR4-SDRAM
Memory clock speeds supported by processor	2133,2400 MHz
Memory bandwidth supported by processor (max)	34.1 GB/s

Memory

Internal memory *	4 GB

Ports & interfaces

USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	1
DVI port	✗
HDMI ports quantity *	1
Ethernet LAN (RJ-45) ports	1
Microphone in	✗
Combo headphone/mic port	✔

Design

Chassis type *	Mini PC
Product colour *	Black

Performance

Product type *	Mini PC

Software

Operating system installed *	ChromeOS

Processor special features

Intel 64	✔
Enhanced Intel SpeedStep Technology	✔
Embedded options available	✗
Intel® InTru™ 3D Technology	✔
Intel® Clear Video HD Technology (Intel® CVT HD)	✔
Intel Clear Video Technology	✔
Intel VT-x with Extended Page Tables (EPT)	✔
Intel TSX-NI	✗
Idle States	✔
Thermal Monitoring Technologies	✔
Intel® AES New Instructions (Intel® AES-NI)	✔
Intel® Secure Key	✔
Intel® OS Guard	✔
Intel Trusted Execution Technology	✗

Memory

Maximum internal memory *	16 GB
Internal memory type	DDR3L-SDRAM
Memory channels	Dual-channel

Storage

Total storage capacity *	32 GB
Storage media *	SSD
Optical drive type *	✘
Total SSDs capacity	32 GB
Number of SSDs installed	1
SSD capacity	32 GB
Card reader integrated	✔

Graphics

Discrete graphics card *	✘
On-board graphics card *	✔
Discrete graphics card model *	Not available
On-board graphics card family	Intel® UHD Graphics
On-board graphics card model *	Intel® UHD Graphics 620
On-board graphics card base frequency	300 MHz
On-board graphics card dynamic frequency (max)	1150 MHz
Maximum on-board graphics card memory	32 GB
Number of displays supported (on-board graphics)	3
On-board graphics card DirectX version	12.0
On-board graphics card OpenGL version	4.4
On-board graphics card ID	0x5917

Network

Ethernet LAN *	✔
Ethernet LAN data rates	10,100,1000 Mbit/s
Wi-Fi *	✔
Top Wi-Fi standard	Wi-Fi 5 (802.11ac)
Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac)
Bluetooth	✔
Bluetooth version	4.2

Ports & interfaces

USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	5

Processor special features

Execute Disable Bit	✔
Intel Flex Memory Access	✔
Intel Enhanced Halt State	✔
Intel Software Guard Extensions (Intel SGX)	✔
Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✔
Processor package size	42 X 24 mm
Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
CPU configuration (max)	1
Intel Virtualization Technology for Directed I/O (VT-d)	✔
Intel Identity Protection Technology version	1.00
Intel Secure Key Technology version	1.00
Intel Virtualization Technology (VT-x)	✔
Intel Smart Response Technology version	1.00
Intel TSX-NI version	0.00
Processor ARK ID	122589
Intel® Smart Response Technology	✔
Intel® Turbo Boost Technology	2.0
Intel® Hyper Threading Technology (Intel® HT Technology)	✔
Intel® Quick Sync Video Technology	✔
Intel® My WiFi Technology (Intel® MWT)	✔
Intel® Identity Protection Technology (Intel® IPT)	✔
Conflict-Free processor	✔

Certificates

Certification	BSMI/CB/CE/FCC/UL/Energy Star/RCM/VCCI

Sustainability

Sustainability certificates	ENERGY STAR

Weight & dimensions

Width *	148.5 mm
Depth *	148.5 mm
Height *	40 mm
Weight *	1 kg

Packaging content

VESA mount included	✔

Display

Display included *	✘

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