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Acer TravelMate TMB311-31-C5KC Laptop 29.5 cm (11.6") HD Intel® Celeron® N N4120 4 GB DDR4-SDRAM 64 GB Flash Wi-Fi 5 (802.11ac) Windows 10 Pro Education Black
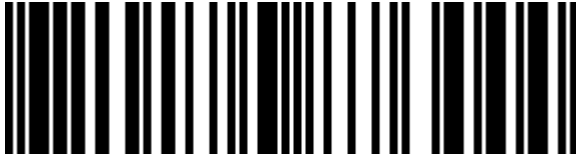
Brand : Acer   **Product family:** TravelMate   **Product code:** NX.VN5EK.002

Product name : TMB311-31-C5KC

- Windows 10 Pro Education 64-bit
- Intel Celeron N4120 (4MB Cache, 1.1GHz)
- 29.5 cm (11.6") HD 1366 x 768 LCD
- 4GB DDR4-SDRAM (1 x 4) & 64GB Flash

Intel Celeron N4120 (4MB Cache, 1.1GHz), 4GB DDR4-SDRAM, 64GB Flash, 29.5 cm (11.6") HD 1366 x 768 LCD, Intel UHD Graphics 600, LAN, WLAN, Webcam, Windows 10 Pro Education 64-bit

Acer TravelMate TMB311-31-C5KC. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Celeron® N, Processor model: N4120, Processor frequency: 1.1 GHz. Display diagonal: 29.5 cm (11.6"), HD type: HD, Display resolution: 1366 x 768 pixels. Internal memory: 4 GB, Internal memory type: DDR4-SDRAM. Total storage capacity: 64 GB, Storage media: Flash. On-board graphics card model: Intel® UHD Graphics 600. Operating system installed: Windows 10 Pro Education. Product colour: Black

Design

Colour name	Shale Black
Product type *	Laptop
Product colour *	Black
Form factor *	Clamshell

Display

Display diagonal *	29.5 cm (11.6")
Display resolution *	1366 x 768 pixels
Touchscreen *	✖
HD type	HD
Panel type	LCD
LED backlight	✔
Native aspect ratio	16:9
Display surface	Matt

Processor

Processor manufacturer *	Intel
Processor family *	Intel® Celeron® N
Processor model *	N4120
Processor frequency *	1.1 GHz
Processor boost frequency	2.6 GHz
Processor threads	4
Processor cores	4
Processor cache	4 MB
Processor socket	BGA 1090
Processor lithography	14 nm
Processor operating modes	64-bit
Processor codename	Gemini Lake Refresh
Thermal Design Power (TDP)	6 W
Tjunction	105 °C
Maximum number of PCI Express lanes	6
PCI Express slots version	2.0
PCI Express configurations	1x4+1x2, 4x1, 2x1+1x2+1x2

Network

WLAN controller manufacturer	Intel
Ethernet LAN	✔
Ethernet LAN data rates	10,100,1000 Mbit/s
Bluetooth	✔
Bluetooth version	5.0

Ports & interfaces

USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Ethernet LAN (RJ-45) ports	1
HDMI ports quantity *	1
Combo headphone/mic port	✔

Keyboard

Pointing device	Touchpad
Keyboard layout	QWERTY
Keyboard language	UK English
Numeric keypad *	✖

Software

Operating system architecture	64-bit
Operating system installed *	Windows 10 Pro Education

Processor special features

Intel® Anti-Theft Technology (Intel® AT)	✖
Intel® Smart Response Technology	✖
Intel® Identity Protection Technology (Intel® IPT)	✔
Intel® Hyper Threading Technology (Intel® HT Technology)	✖
Intel® Turbo Boost Technology	✖
Enhanced Intel SpeedStep Technology	✔
Intel® Quick Sync Video Technology	✔
Intel® AES New Instructions (Intel® AES-NI)	✔

Memory

Internal memory *	4 GB
Internal memory type	DDR4-SDRAM
Memory layout (slots x size)	1 x 4 GB

Storage

Total storage capacity *	64 GB
Storage media *	Flash
Flash memory	64 GB
Optical drive type *	✘
Card reader integrated	✔
Compatible memory cards	MicroSD (TransFlash)

Graphics

Discrete graphics card model *	Not available
On-board graphics card *	✔
Discrete graphics card *	✘
On-board graphics card family	Intel® UHD Graphics
On-board graphics card model *	Intel® UHD Graphics 600
On-board graphics card base frequency	200 MHz
On-board graphics card burst frequency	700 MHz
On-board graphics card dynamic frequency (max)	700 MHz
Maximum on-board graphics card memory	8 GB
Number of execution units	12
On-board graphics card DirectX version	12.0
On-board graphics card OpenGL version	4.4
On-board graphics card ID	0x3185

Audio

Number of built-in speakers	2
Built-in microphone	✔
Number of microphones	2

Camera

Front camera	✔
Front camera resolution	1280 x 720 pixels
Front camera HD type	HD

Network

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)
Mobile network connection *	✘
Antenna type	2x2
WLAN controller model	Intel Dual Band Wireless-AC 9560

Processor special features

Intel VT-x with Extended Page Tables (EPT)	✔
Intel® Secure Key	✔
Intel® OS Guard	✔
Intel Software Guard Extensions (Intel SGX)	✔
Intel 64	✔
Execute Disable Bit	✔
Idle States	✔
Thermal Monitoring Technologies	✔
Processor package size	25 x 24 mm
Supported instruction sets	SSE4.2
CPU configuration (max)	1
Embedded options available	✘
UART	✔
Intel Virtualization Technology for Directed I/O (VT-d)	✔
Intel Virtualization Technology (VT-x)	✔
Processor ARK ID	197309

Battery

Battery technology	Lithium-Ion (Li-Ion)
Number of battery cells	3
Battery capacity *	48 Wh
Battery life (max)	12 h

Power

AC adapter power	45 W

Security

Cable lock slot	✔
Cable lock slot type	Kensington
Trusted Platform Module (TPM)	✔
Password protection	✔
Password protection type	BIOS, HDD, Supervisor, User

Weight & dimensions

Width	295 mm
Depth	215 mm
Height	20.9 mm
Weight *	1.4 kg

Packaging content

Cables included	AC

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