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OMEN by HP Laptop 16-b1001ne (6A3T4EA)

Operating system

FreeDOS

Processor family

12th Generation Intel® Core™ i7 processor

Processor

Intel® Core™ i7-12700H (up to 4.7 GHz with Intel® Turbo Boost Technology, 24 MB L3 cache, 14 cores, 20 threads)^[1, 2]

Chipset

Intel® Integrated SoC

Graphics

Discrete,
NVIDIA® GeForce RTX™ 3070 Laptop GPU (8 GB GDDR6 dedicated)^[3]

Memory

16 GB DDR5-4800 MHz RAM (2 x 8 GB)

(Transfer rates up to 4800 MT/s.)

Internal Storage

1TB PCIe® NVMe™ TLC M.2 SSD

Display

40.9 cm (16.1") diagonal, QHD (2560 x 1440), 165 Hz, 3 ms response time, IPS, micro-edge, anti-glare, Low Blue Light, 300 nits, 100% sRGB^[4, 5, 6]

Touchscreen

No

Screen-to-body ratio (without speakers)

80.69%^[7]

Color gamut

100% sRGB

Brightness

300 nits

Minimum dimensions (W x D x H)

36.92 x 24.8 x 2.3 cm (Dimensions vary by configuration)

Weight

2.31 kg (Weight varies by configuration)

Battery type

4-cell, 70 Wh Li-ion polymer^[8]

Battery life

Up to 6 hours and 15 minutes^[9]

Battery recharge time

Supports battery fast charge: approximately 50% in 30 minutes^[10]

Wireless

MediaTek Wi-Fi 6 MT7921 (2x2) and Bluetooth® 5.3 wireless card (supporting gigabit data rate)^[11, 12, 13]
(MU-MIMO supported)

Network interface

Integrated 10/100/1000 GbE LAN

Product color

Shadow black cover and base, shadow black aluminum keyboard frame

Keyboard

Full-size, 4-zone RGB backlit, shadow black keyboard and 26-Key Rollover Anti-Ghosting Key technology

Camera

HP Wide Vision 720p HD camera with temporal noise reduction and integrated dual array digital microphones

Audio

Audio by Bang & Olufsen; DTS:X® Ultra; Dual speakers; HP Audio Boost

Pointing device

HP Imagepad with multi-touch gesture support; Precision Touchpad support

Expansion slots

1 multi-format SD media card reader

Ports

1 Thunderbolt™ 4 with USB4™ Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4, HP Sleep and Charge); 1 SuperSpeed USB Type-A 5Gbps signaling rate (HP Sleep and Charge); 2 SuperSpeed USB Type-A 5Gbps signaling rate; 1 HDMI 2.1; 1 RJ-45; 1 AC smart pin; 1 headphone/microphone combo; 1 mini DisplayPort™ ^[14, 15]

Power supply type

230 W AC power adapter

Security management

Trusted Platform Module (Firmware TPM) support

Input devices

IR Thermal sensor

Sustainable impact specifications

Ocean-bound plastic in speaker enclosure(s); Recycled metal in keyboard frame and hinge cap(s); Keyboard keycaps made with post-consumer recycled plastic ^[16, 17, 18]

Manufacturer Warranty

1 year (1/1/0) limited warranty includes 1 year of parts and labor. No on-site repair. Terms and conditions vary by country. Certain restrictions and exclusions apply.
