# Intel® NUC Kit NUC7i7DNKE

## Specifications

Export specifications

### Essentials

| | |
|---|---|
| Product Collection | Intel® NUC Kit with 8th Generation Intel® Core™ Processors |
| Code Name | Products formerly Dawson Canyon |
| Status | Launched |
| Launch Date | Q1'18 |
| Supported Operating Systems | Windows 10, 64-bit*, Windows 10 IoT Enterprise*, Ubuntu 16.04* |
| Board Number | NUC7i7DNB |
| Board Form Factor | UCFF (4" x 4") |
| Socket | Soldered-down BGA |
| Internal Drive Form Factor | M.2 SSD |
| # of Internal Drives Supported | 1 |
| TDP | 15 W |
| DC Input Voltage Supported | 12-24 VDC |
| Processor Included | Intel® Core™ i7-8650U Processor (8M Cache, up to 4.20 GHz) |
| Intel vPro® Platform Eligibility ‡ | Yes |
| # of Cores | 4 |
| # of Threads | 8 |
| Processor Base Frequency | 1.90 GHz |
| Max Turbo Frequency | 4.20 GHz |
| Warranty Period | 3 yrs |
| Recommended Customer Price | $555.92 - $558.38 |

### Supplemental Information

| | |
|---|---|
| Embedded Options Available | Yes |
| Description | 8th Gen Commercial Intel® NUC |

## Memory & Storage

| | |
|---|---|
| Max Memory Size (dependent on memory type) | 32 GB |
| Memory Types | DDR4-2400 1.2V SO-DIMM |
| Max # of Memory Channels | 2 |
| Max # of DIMMs | 2 |
| ECC Memory Supported ‡ | No |

## Processor Graphics

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|---|---|
| Processor Graphics ‡ | Intel® UHD Graphics 620 |
| Integrated Graphics ‡ | Yes |
| Graphics Output | Dual HDMI 2.0a, 4-lane eDP 1.4 |
| # of Displays Supported ‡ | 2 |

## Expansion Options

| | |
|---|---|
| PCI Express Revision | Gen 3 |
| PCI Express Configurations ‡ | PCIe x4: M.2 22x80 (key M) slot PCIe x1: M.2 22x30 (key E) slot |
| M.2 Card Slot (wireless) | 22x30 (key E) slot |
| M.2 Card Slot (storage) | 22x80 (key M) slot |

## I/O Specifications

| | |
|---|---|
| # of USB Ports | 4 |
| USB Configuration | 2x front and 2x rear USB 3.0; 1x USB 3.0 and 2x USB 2.0 via internal headers |
| USB Revision | 2.0, 3.0 |
| USB 2.0 Configuration (External + Internal) | 0 + 2 |
| USB 3.0 Configuration (External + Internal) | 2B 2F +1 |
| Total # of SATA Ports | 2 |
| Max # of SATA 6.0 Gb/s Ports | 2 |
| RAID Configuration | N/A |
| Serial Port via Internal Header | Yes |
| Integrated LAN | Intel® i219-LM 10/100/1000 Mbps Ethernet |
| Integrated Wireless‡ | Intel® Wireless-AC 8265 vPro (IEEE 802.11ac 2x2) |

| Integrated Bluetooth | Yes |
| Additional Headers | Front_panel (PWR, RST, 5V, 5Vsby, 3.3Vsby); HDMI_CEC; Internal 2x2 power connector |

## Package Specifications

| Chassis Dimensions | 115 x 111 x 36 mm |

## Advanced Technologies

| Intel® Virtualization Technology for Directed I/O (VT-d) ‡ | Yes |
| Intel vPro® Platform Eligibility ‡ | Yes |
| Intel® ME Firmware Version | v11.8 |
| TPM | Yes |
| TPM Version | 2.0 |
| Intel® Rapid Storage Technology | Yes |
| Intel® Virtualization Technology (VT-x) ‡ | Yes |
| Intel® Platform Trust Technology (Intel® PTT) | No |

## Security & Reliability

| Intel® AES New Instructions | Yes |
| Intel® Trusted Execution Technology ‡ | Yes |

Ordering and Compliance

Product Images

Compatible Products

Drivers and Software

Technical Documentation

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Refer to Datasheet for formal definitions of product properties and features.

‡ This feature may not be available on all computing systems. Please check with the system vendor to determine if your system delivers this feature, or reference the system specifications (motherboard, processor, chipset, power supply, HDD, graphics controller, memory, BIOS, drivers, virtual machine monitor-VMM, platform software, and/or operating system) for feature compatibility. Functionality, performance, and other benefits of this feature may vary depending on system configuration.

System and Maximum TDP is based on worst case scenarios. Actual TDP may be lower if not all I/Os for chipsets are used.

"Announced" SKUs are not yet available. Please refer to the Launch Date for market availability.

Some products can support AES New Instructions with a Processor Configuration update, in particular, i7-2630QM/i7-2635QM, i7-2670QM/i7-2675QM, i5-2430M/i5-2435M, i5-2410M/i5-2415M. Please contact OEM for the BIOS that includes the latest Processor configuration update.

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