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|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
|                                             | <b>Intel® NUC 9 Extreme Kit - NUC9i5QNX</b>                                                                                              |
| <b>Essentials</b>                           |                                                                                                                                          |
| Supported Operating Systems                 | Windows 10, 64-bit*, Linux*                                                                                                              |
| Board Number                                | NUC9i5QNB                                                                                                                                |
| Board Form Factor                           | PCIe                                                                                                                                     |
| Internal Drive Form Factor                  | M.2 SSD                                                                                                                                  |
| # of Internal Drives Supported              | 3                                                                                                                                        |
| Board Chipset                               | Mobile Intel® CM246 Chipset                                                                                                              |
| Processor Included                          | Intel® Core™ i5-9300H Processor (8M Cache, up to 4.10 GHz)                                                                               |
| Intel® vPro™ Platform Eligibility ‡         | No                                                                                                                                       |
| # of Cores                                  | 4                                                                                                                                        |
| # of Threads                                | 8                                                                                                                                        |
| Processor Base Frequency                    | 2.40 GHz                                                                                                                                 |
| Max Turbo Frequency                         | 4.10 GHz                                                                                                                                 |
| Warranty Period                             | 3 yrs                                                                                                                                    |
| <b>Supplemental Information</b>             |                                                                                                                                          |
| Embedded Options Available                  | No                                                                                                                                       |
| <b>Memory &amp; Storage</b>                 |                                                                                                                                          |
| Max Memory Size (dependent on memory type)  | 64 GB                                                                                                                                    |
| Memory Types                                | DDR4-2666                                                                                                                                |
| Max # of Memory Channels                    | 2                                                                                                                                        |
| Max Memory Bandwidth                        | 42.6 GB/s                                                                                                                                |
| Max # of DIMMs                              | 2                                                                                                                                        |
| ECC Memory Supported ‡                      | No                                                                                                                                       |
| <b>Processor Graphics</b>                   |                                                                                                                                          |
| Processor Graphics ‡                        | Intel® UHD Graphics 630                                                                                                                  |
| Integrated Graphics ‡                       | Yes                                                                                                                                      |
| Graphics Output                             | 2x Thunderbolt 3, HDMI 2.0a                                                                                                              |
| # of Displays Supported ‡                   | 3                                                                                                                                        |
| Discrete Graphics                           | Via PCIe add-in card(s)                                                                                                                  |
| <b>Expansion Options</b>                    |                                                                                                                                          |
| PCI Express Revision                        | Gen3                                                                                                                                     |
| PCI Express Configurations ‡                | 2x M.2 PCIe X4 slots (PCH), 1x M.2 PCIe X4 slot (CPU) Double-wide PCIe X16 (CPU) slot shared with PCIe X4 (CPU) slot, 8" max card length |
| PCIe x4 Gen 3                               | 1                                                                                                                                        |
| PCIe x16 Gen 3                              | 1                                                                                                                                        |
| Removable Memory Card Slot                  | SDXC with UHS-II support                                                                                                                 |
| M.2 Card Slot (storage)                     | 2x via PCH + 1x via CPU (NVMe)                                                                                                           |
| <b>I/O Specifications</b>                   |                                                                                                                                          |
| # of USB Ports                              | 11                                                                                                                                       |
| USB Configuration                           | 4x rear USB 3.1g2, 2x Thunderbolt 3 (USB 3.1g2), 2x front USB 3.1g2, 2x USB 2.0 via internal headers, 1x USB 2.0 internal                |
| USB Revision                                | 3.1 Gen2, 2.0                                                                                                                            |
| USB 2.0 Configuration (External + Internal) | 3x int.                                                                                                                                  |
| Total # of SATA Ports                       | 3                                                                                                                                        |
| Max # of SATA 6.0 Gb/s Ports                | 3                                                                                                                                        |
| RAID Configuration                          | 2x M.2 SATA/PCIe SSD, SATA header (RAID-0 RAID-1)                                                                                        |
| Audio (back channel + front channel)        | 7.1 digital; L+R+mic (F); L+R+TOSLINK (R)                                                                                                |
| Integrated LAN                              | Intel® Ethernet Connection i219-LM and i210-AT                                                                                           |
| Integrated Wireless‡                        | Intel® Wi-Fi 6 AX200                                                                                                                     |

|                                                            |                             |
|------------------------------------------------------------|-----------------------------|
| Integrated Bluetooth                                       | Yes                         |
| S/PDIF Out Connector                                       | TOSLINK                     |
| Additional Headers                                         | CEC, 2x USB2.0, FRONT_PANEL |
| # of Thunderbolt™ 3 Ports                                  | 2                           |
| <b>Package Specifications</b>                              |                             |
| Chassis Dimensions                                         | 238 x 216 x 96mm            |
| <b>Advanced Technologies</b>                               |                             |
| Intel® Optane™ Memory Supported ‡                          | Yes                         |
| Intel® Virtualization Technology for Directed I/O (VT-d) ‡ | Yes                         |
| Intel® vPro™ Platform Eligibility ‡                        | No                          |
| TPM                                                        | Yes                         |
| Intel® Rapid Storage Technology                            | Yes                         |
| Intel® Virtualization Technology (VT-x) ‡                  | Yes                         |
| Intel® Platform Trust Technology (Intel® PTT)              | Yes                         |
| <b>Security &amp; Reliability</b>                          |                             |
| Intel® AES New Instructions                                | Yes                         |