

Dawson U i3 - NUC7 Pro NUC7i3DNUE

Easy Customization

The Dawson U NUC7i3DNUE, built with a 7th Gen Intel® Core i3 processor, will help you innovate your small space and embedded solutions. With a built-in Intel® 8265 Wi-Fi module, support for up to 64GB DDR4-2400 memory and up to 10TB of storage, these kits are customizable to match your requirements and maximize performance.

Feature Rich

The Dawson U comes with dual HDMI 2.0a ports to power your 4K displays at 60Hz, bringing your kiosk and digital signage deployments to life. Paired with four USB 3.0 Type-A ports and an

upgradable expansion plate for valued features such as RS-232 and RS-485 serial ports, Dawson U is ideal to enhance and expand your embedded solutions in a minimal footprint.

Flexible by Design

Elevate the capabilities of Dawson U further with an I/O expansion lid, giving you additional options like HDMI, dual USB and serial ports that provide the flexibility to meet the requirements of your application. Easily embed the Dawson U into your current fleet of embedded units with its 12-24V variable input voltage, allowing it to match your current power supply.

Highlighted Features

- 7th Gen Intel® Core™ i3-7100U
- Intel® HD Graphics 620
- 2x DDR4-2400 SO-DIMM sockets
- 1x M.2 22x80 M-key supporting PCIe x4 Gen 3 NVMe or SATA SSDs
- 1x M.2 22x80 M-key supporting SATA SSDs
- 2x HDMI 2.0a (4K @ 60Hz), w/HDCP2.2 and built-in CEC
- 1x Intel® 1Gb LAN
- Intel® 8265 Wi-Fi +Bluetooth 4.2
- 4x USB 3.0 Gen2 type-A
- 7.1 multichannel digital audio via HDMI
- Kensington lock support
- VESA mount included
- 24x7 operation
- 19V 65W Power supply included
- 12-24V input range

Customization

- 1x M.2 supporting up to 8TB PCIe or 2TB SATA
- 1x M.2 supporting up to 2TB SATA
- Memory up to 64GB
- Replaceable lid for I/O expansion
- OS options including Windows 10 Home & Pro, Windows IoT, Ubuntu



Simply NUC Services

You can order this NUC in your various configurations, as well as your corporate OS Image loaded and ready to deploy.

Technical Specifications

Processor

- Intel[®] 7th Gen Core™ i3-7100U, 2.40GHz, 2C/4T, 3MB Intel[®] Smart Cache, 15W

Baseboard Power Requirements

- 12-24V_{DC} variable input
- 65W 19V PSU supplied

Storage Capabilities

- 1x M.2 22x80 socket supporting PCIe x4 Gen 3 NVMe from 128GB to 8TB or SATA SSD from 128GB to 2TB
- 1x M.2 22x80 socket supporting SATA SSD from 128GB to 2TB

Graphics

- Intel[®] HD Graphics 620
- 2x HDMI 2.0a ports, one with CEC and the second with optional CEC via internal header, both support HDCP2.2 and 4K @ 60Hz resolution

Expansion Options

- 1x USB 3.0 header
- 2x USB 2.0 headers
- 1x CEC header
- Replaceable lid for I/O expansion

Chassis Information

- 115x115x49mm
- Kensington lock support
- VESA mount kit support

Audio

- 7.1 multichannel digital audio via HDMI

System Memory

- Dual DDR4-2400 SODIMMs, 1.2V, up to 64GB

Peripheral Connectivity

- Intel Wi-Fi 8265 on 22x30 M.2 socket, 802.11ax
- Bluetooth 4.2
- 1x 1Gb LAN (i219-LM)
- 2x Front USB 3.0 type-A
- 2x Rear USB 3.0 type-A

Certifications and Regulation

Safety Regulations and Standards

- IEC 60950-1
- UL 60950-1
- EN 60950-1
- CAN/CSA-C22.2 No.60950-1

Environmental Operating Temp

- 0°C to +45°C
- Non-Condensing Humidity

EMC/RF Regulations & Standards

- FCC CFR Title 47, Chapter I, Part 15, Subparts B, C, E
- CISPR 52
- ICES-005
- EN 55052
- EN 62511
- EN55024
- ETSI EN 500 528
- ETSI EN 501 489-17
- ETSI EN 501 489-1
- ETSI EN 501 895
- AS/NZS 2772.2
- VCCI V-2, V-5, V-4
- KN-52
- CNS 15458

EMC/RF Regulations & Standards Cont'd

- AS/NZS 4268
- KN24

Environmental Regulations

- RoHS Directive 2011/65/EU
- WEEE Directive 2012/19/EU
- China RoHS

Certified Operating Systems

- Windows 10 64-bit (Pro and Home)
- Windows IoT
- Ubuntu Linux