

## SPCDS77U3 - i3 Fanless Industrial Computer

### Who said small isn't powerful?

The Simply NUC SPCDS77U3 is able to run multiple applications simultaneously including massive spreadsheets, documents, presentations, and any other home or office needs you might have, as well as being designed for 24/7 runtime in embedded or industrial applications. The system includes dual LAN, dual serial (also capable of providing 5V or 12V power to the other device), as well as supporting easy connection to an external power button. You can also configure it to turn on automatically any time it's plugged in.

The SPCDS77U3 is built with a 7th generation Intel® Core™ i3 processor to give you the performance to handle anything you throw at it.

### Quiet and Cool

The SPCDS77U3's fanless design allows for totally silent operation in noise sensitive areas and the large integrated heatsink ensures there is adequate cooling for maximum performance. The fanless design also allows it to operate in dusty or dirty environments without worrying about moving parts failing.

### Designed for embedded

The Simply NUC SPCDS77U3 is designed from the ground up for demanding embedded applications, including digital signage, POS, kiosk/thin client, multimedia, or industrial control applications. And yet it's still powerful enough to easily play 4K content and connect to up to three displays at a time.

It also has plenty of room for connections to any peripheral devices, with six USB ports, two legacy serial ports, two HDMI ports, and a DisplayPort.

And it can be configured to meet your specific needs, from the amount of memory and storage to custom OS images.

### Cut the cords, not the Performance

The Simply NUC SPCDS77U3 comes with built-in 802.11b/g/n wireless for connectivity out-of-the-box, without wires. And if you prefer wired, it also has dual gigabit Ethernet ports which support bonding for blazing fast speeds.

### Highlighted features

- 7th Gen Intel® Core™ i3
- Intel® HD Graphics 620
- 4GB DDR4 (32GB Max)
- 128GB M.2 SSD (2TB Max)
- Dual HDMI 1.4b (4k @ 30Hz)
- One DisplayPort 1.2 (4k @ 60Hz)
- Dual Intel® Gigabit LAN
- Realtek 802.11n WLAN
- Dual serial ports
- Two USB 3.0 ports, four USB 2.0 ports
- Front panel power button
- 19V DC Jack (12V or 19V supported)
- VESA Mount Kit

### Customization

- Two DDR4 SO-DIMM Sockets
- M.2 slot supports PCI or SATA SSDs
- Internal 2.5 inch SATA Bay
- Configurable "always power on" option
- External power button connection on back panel



### 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

<p><b>Processor</b></p> <ul style="list-style-type: none"> <li>Intel® Core™ i3-7100U processor (2.4 GHz, Dual Core, Hyper-threading, 3 MB SmartCache, 15W TDP)</li> </ul>	<p><b>Graphics</b></p> <ul style="list-style-type: none"> <li>Intel® HD Graphics 620</li> <li>Dual HDMI 1.4b (max 4k @ 30Hz)</li> <li>One DisplayPort (max 4k @ 60Hz)</li> </ul>	<p><b>System Memory</b></p> <ul style="list-style-type: none"> <li>4GB DDR4-2133 pre-installed.</li> <li>Two DDR4 SO-DIMM sockets, 32GB Max, 1.2V</li> </ul>
<p><b>Storage Capabilities</b></p> <ul style="list-style-type: none"> <li>128GB M.2 SATA pre-installed.</li> <li>One M.2 socket supporting 22x80 M.2 SSDs, SATA or PCIe, 2TB SATA or PCIe SSD Max.</li> <li>One SATA 3 port for connection to 2.5" HDD or SSD (up to 12.5 mm) (4TB SSD or 2TB HDD Max)</li> </ul>	<p><b>Peripheral Connectivity</b></p> <ul style="list-style-type: none"> <li>Dual Intel® Gigabit LAN (one Intel i211, one Intel i219LM) with bonding configurable</li> <li>Two Super-Speed USB 3.0 ports</li> <li>Four Hi-Speed USB 2.0 ports</li> <li>Realtek RTL8188EE (802.11b/g/n) with internal antenna, up to 150Mbps</li> <li>SD card reader</li> <li>Dual legacy serial ports (one RS-232, one RS-232/RS-422/RS-485) Both optionally support providing 5V or 12V power via pin 9</li> </ul>	<p><b>System Bios</b></p> <ul style="list-style-type: none"> <li>8 MB EEPROM with UEFI</li> <li>AMI BIOS</li> <li>Supports Wake on LAN, Wake on RTC Alarm</li> <li>Includes Firmware-TPM v2.0</li> </ul>
<p><b>Audio</b></p> <ul style="list-style-type: none"> <li>Realtek HD Audio via 3.5mm TRS</li> <li>Digital 5.1-channel audio via HDMI</li> </ul>	<p><b>Baseboard Power Requirements</b></p> <ul style="list-style-type: none"> <li>19V, 65W AC-DC power adapter</li> </ul> <p><b>Mechanical Chassis Size</b></p> <ul style="list-style-type: none"> <li>200 x 165 x 39.5 mm</li> <li>7.9" x 6.5" x 1.6"</li> <li>2.18kg (4.8 lbs) Configured</li> </ul>	<p><b>External Power Header</b></p> <ul style="list-style-type: none"> <li>Power button, clear CMOS, 5 V, and ground</li> </ul>
<p><b>Hardware Management Features</b></p> <ul style="list-style-type: none"> <li>Voltage and temperature sensing</li> <li>ACPI-compliant power management control</li> <li>Processor fan speed control</li> <li>Fan sensor inputs used to monitor fan activity</li> <li>Configurable to always power on when power is applied</li> </ul>	<p><b>Expansion Capabilities</b></p> <ul style="list-style-type: none"> <li>2.5in Drive Mount for SATA drive.</li> <li>Connector for external power button on back panel</li> </ul>	

## Certification and Regulations

<p><b>Product Safety Regulations and Standards</b></p> <ul style="list-style-type: none"> <li>IEC 60950-1</li> <li>UL 60950-1</li> <li>EN 60950-1</li> <li>CAN/CSA-C22.2 No. 60950-1</li> </ul>	<p><b>EMC/RF Regulations and Standards (Class B)</b></p> <ul style="list-style-type: none"> <li>CISPR 52</li> <li>FCC CFR Title 47, Chapter I, Part 15, Subparts B, C, E</li> <li>ICES-005</li> <li>EN 55052</li> <li>ETSI EN 500 528</li> <li>ETSI EN 501 489-17</li> <li>EN 62511</li> <li>AS/NZS 2772.2</li> <li>VCCI V-2, V-5, V-4</li> <li>KN-52</li> <li>CNS 15458</li> <li>EN 55024</li> <li>ETSI EN 501 489-1</li> <li>ETSI EN 501 895</li> <li>AS/NZS 4268</li> <li>KN-24</li> </ul>	<p><b>Environmental Regulations</b></p> <ul style="list-style-type: none"> <li>RoHS Directive 2011/65/EU</li> <li>WEEE Directive 2012/19/EU</li> <li>China RoHS</li> </ul>
<p><b>Environment Operating Temp</b></p> <ul style="list-style-type: none"> <li>0° C to +40° C</li> <li>Non-condensing Humidity</li> </ul> <p><b>Storage Temperature</b></p> <ul style="list-style-type: none"> <li>-20° C to +70° C</li> </ul>	<p><b>Certified Operating Systems</b></p> <ul style="list-style-type: none"> <li>Windows 10 64-bit (Pro &amp; Home)</li> <li>Various Linux (Contact Simply NUC for specifics)</li> </ul>	