

DH02U/U3/U5/U7

SLIM PC



PROCESSOR	Intel® Celeron® 3865U 15W (i3-7100U/i5-7200U/i7-7500U options available)	
MEMORY	2 x 260 pin DDR4 SODIMM 2133 MHz slots, Supports dual channel up to 32GB (16GB x 2)	
VIDEO GRAPHICS	NVIDIA® GeForce® GTX 1050 (MXM card), 4GB GDDR5	
VIDEO OUTPUT	HDMI, Supports quad independent displays, Supports 4K/2K playback	
AUDIO	Realtek ALC662 HD audio	
ETHERNET	Intel i211 10/100/1000 MB/s operation	Supports Wake on LAN function
STORAGE INTERFACE	SATA 6 GB/s	
ONBOARD CONNECTORS	(2) 4 pin fan connector (1) connector for CMOS battery (1) audio input/output (2x7 pins)	(1) RS232/COM port (2x5 pin) (1) analog VGA graphics output CN2 [4]* (1) USB 2.0 header
FRONT PANEL	(1) Power Button (1) Power LED (1) HDD LED (2) USB 2.0	(2) USB 3.0 (1) External microphone jack 1/8" (1) External headphone jack 1/8"
BACK PANEL	(4) HDMI 2.0b (2) USB 3.0 (1) Microphone input (1) Audio line out (headphones)	(1) Clear CMOS button [1]* (1) DC-in (1) Gigabit LAN RJ45 (1) RS232
DRIVE BAYS	(1) 2.5" HDD/SSD bay	
DIMENSIONS	7.5(L) x 6.5(W) x 1.7(H) inches	
POWER	Input: 100 - 240V AC Output: 19V 6.32A DC	120W power supply
ACCESSORIES	Quick Guide Screws SATA cable Power cord	Driver DVD VESA mount 802.11 b/g/n WLAN module (optional) Vertical stand (optional)
EXPANSION SLOT	(1) M.2 2230 Type E key socket (1) M.2 2280 Type M key socket	(1) M.2 2280 Type M slot
OS SUPPORT	Windows 10 64bit, Linux	

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CHASSIS	Black slim type metal chassis Kensington lock slot on the back as part of anti-theft system Dimensions: 7.5 (L) x 6.5 (W) x 1.7 (H) inches Weight: 2.3 LBS (net) / 4.8 LBS (gross)
MAINBOARD AND CHIPSET	Shuttle Mainboard FS02U Supports hardware monitoring and watch dog functionality Solid capacitors for sensitive areas provide excellent heat resistance for enhanced system durability
BIOS	AMI BIOS, SPI Interface, 8 MB EEPROM with SPI interface Supports Unified Extensible Firmware Interface (UEFI) Supports boot from M.2 SSD cards and USB devices Supports Wake on LAN Supports Power on by RTC Alarm Supports power on after power failure [3]*
POWER SUPPLY	External 120W power adapter (fanless) AC input voltage: 100 - 240V, 50 - 60 Hz Output: 19V DC 6.32A
OPERATING SYSTEM	The system comes without an operating system installed. Compatibility: Windows 10, Linux 64bit
PROCESSOR SUPPORT	Intel Celeron 3865U System-on-a-chip architecture (SoC): no chipset required BGA1356 package - directly soldered onto the mainboard Kaby Lake-U (7th Generation Intel Core) Cores/Threads: 2/2 Clock rate: 1.8 GHz L1/L2/L3 cache: 128 kb/ 512 kb/ 2048 kb 15W max, 14 nm, max Tjunction temperature: 100°C Supports 64 bit, VT-x (EPT), VT-d, Enhanced Speedstep, NX bit, AES-NI, SSE 4.1/4.2
MEMORY SUPPORT	2 x 260 pin SODIMM slots Supports DDR4 2133 MHz memory (PC3-17000) at 1.2V Supports Dual Channel mode Supports a max. of 16GB per DIMM, up to 32GB total Supports two unbuffered DIMM modules (no ECC or registered)
DRIVE BAYS	1 x 2.5" drive bay supports one hard disk or SSD drive, max height 12.5 mm Supports SATA III, 6 GB/s bandwidth Supports Unified Extensible Firmware Interface (UEFI)
M.2 2280 SLOT	The M.2 2280 M slot supports M.2 SSD cards with a SATA interface and a width of 22 mm and a length of 42, 60, or 80 mm (type 2242/2260/2280). Supports M.2 SATA SSDs (with B+M key), M.2 PCI-E SSDs (with M key)
M.2 2230 SLOT	M.2 2230 AE slot provides PCI-Express v2.0 X1 and USB 2.0 interfaces. Supports M.2 card with a width 22 mm and a length of 30 mm. This slot is intended for WLAN (Wi-Fi), Bluetooth, GSM/UMTS card and others. A SATA interface for SSD cards is not available here.
AUDIO	Realtek® ALC 662 5.1 channel HD audio Two analog audio connectors (3.5 mm) on the front panel: 2 channel line-out (headphones), Microphone input Digital multi-channel audio output (HDMI and DisplayPort)
GIGABIT LAN CONTROLLER	Intel i211 Ethernet Controller with MAC, PHY, and PCI-E interface Supports 10/100/1000 MB/s operation Supports Wake-ON-LAN Supports network boot by Preboot eXecution Environment (PXE)

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MULTI-CHANNEL AUDIO	Realtek ALC662 codec with HD audio Front: MIC in, Headphones in Digital multi-channel audio via HDMI and DisplayPort outputs	
FRONT PANEL CONNECTORS	2 x USB 3.0 2 x USB 2.0 Hard disk drive indicator (Yellow LED)	Power button Power indicator (Blue LED)
BACK PANEL CONNECTORS	HDMI v2.0b x 4 USB 3.0 x 2 Gigabit LAN (RJ45) x 1 RS232 x 1	WLAN antenna holes x 2 DC-input connector for external power adapter Kensington Lock x 2
OTHER CONNECTORS (ONBOARD)	Connector for CMOS battery Fan connectors x 2 (4 pin) RS232 x 1 (2x5 pin)	Audio connector (2x7 pin) COM x 2 Analog VGA output [4]*
INCLUDED ACCESSORIES	XPC installation guide Driver DVD SATA and power cables Heatsink compound	External 90W power adapter with cord Protector cap for CPU socket (don't use if heatpipe/fan is mounted) Screw pack VESA mount (PV04)
OPTIONAL ACCESSORIES	Vertical stand (PS02) WLN-M (WLAN module)	PRM01 (rack mount front plate for two XPC slim PCs)
ENVIRONMENTAL CRITERIA	Operating temperature: 0 - 50°C [2]*	Humidity: 10 - 90% (non-condensing)
CERTIFICATIONS	EMI: FCC, CE, BSMI, VCCI, RCM Safety: ETL, CB, BSMI	Other: RoHS, Energy Star, ErP
<p>This model is classed as a technical information equipment (ITE) in class B and is intended for use in living rooms and offices. The CE mark approves conformity by the EU directives: (1) 2004/108/EC relating to electromagnetic compatibility (EMC) (2) 2006/95/EC relating to Electrical Equipment designed for use within certain voltage limits (LVD) (3) 2009/125/EC relating to eco-design requirements for energy related products (ErP)</p>		

[1] FOUR PIN HEADER ON THE BACK PANEL

This header allows for connecting an external power button. It also provides a 5V DC voltage for external device and the Clear CMOS function. (optional accessory: CXP01 adapter cable)

[2] OPERATING TEMPERATURE

For high ambient temperatures over 35°C, we strongly recommend using SSDs instead of an HDD

[3] POWER ON AFTER POWER FAILURE

The BIOS setup provides a "Power-On after Power Fail" function that can be found under "Power Management Configuration". As the name indicates, this function determines the PC's behavior after a power failure: (1) unconditional power on, (2) restore former status, or (3) keep system turned off. This function may fail after short power failures, but the DH02U comes with a hardware based solution in these cases. By removing the Jumper JP1 on the mainboard (please refer to the quick guide), the system will start unconditionally once power is supplied.

[4] ONBOARD VGA CONNECTOR

The onboard VGA connector can only be used if the NVIDIA graphics card is removed (this port is disabled by default).

BIOS DOWNLOADS: <http://global.shuttle.com/products/productsDownload?productId=2283>

SUPPORT LIST: <http://global.shuttle.com/products/productsSupportList?productId=2283>

FAQ LIST: <http://global.shuttle.com/support/faq>

PRODUCT WARRANTY: <https://us.shuttle.com/barebone-support/policy-xpc-barebone/>

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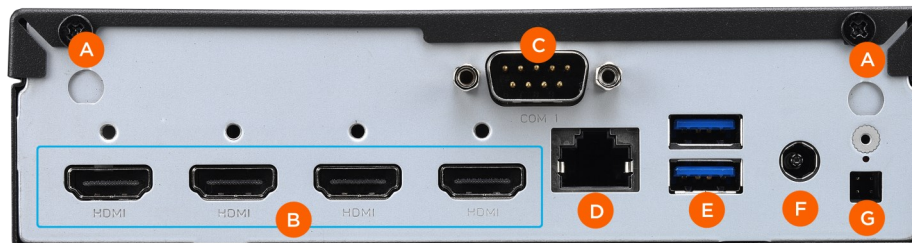
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Front View



- | | | | |
|---|------------------|---|--------------|
| 1 | Microphone input | 5 | Power Button |
| 2 | Headphone input | 6 | USB 3.0 x 2 |
| 3 | Power LED | 7 | USB 2.0 x 2 |
| 4 | Hard Disk LED | | |

Back View



- | | | | |
|---|-----------------------|---|----------------------|
| A | WLAN antenna hole x 2 | E | USB 3.0 x 2 |
| B | HDMI 2.0b x 4 | F | DC power input |
| C | RS232 (COM1) | G | Clear CMOS connector |
| D | RJ45 Gigabit LAN | | |



Kensington lock hole on left and right side

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INTEL[®] 7TH GENERATION PROCESSORS

The DH02U series is equipped with a Celeron dual core processor for seamless multitasking and energy efficiency (Intel[®] Core i3/i5/i7 options available). With built-in Direct X12 compatibility, CPU and GPU performance is increased significantly.



VESA MOUNTABLE

The supplied 75/100mm VESA mount allows for installation of the DH02U on walls or monitors, for use in company buildings, public institutions, or other industry buildings. With a thickness of 43mm, it allows for versatile integration into hardware systems and well suited for areas with limited space.



NVIDIA GRAPHICS CARD

The DH02U series is powered by a NVIDIA[®] GeForce[®] GTX 1050 card with 4GB of GDDR5 memory for stunning detail and a dynamic visual experience with exceptional graphics performance.



QUADRUPLE DISPLAY OUTPUT

With four HDMI 2.0 outputs built-in, the DH02U series supports four independent displays, providing maximum productivity and dynamic visualization for multitasking and digital signage applications.



SMART FAN DESIGN

A heat-pipe cooling system with smart fan design can be set in the BIOS for faster fan speed automatically when CPU temperature increases for high stability and low noise during long term operation.

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ACCESSORY	PS02
DESCRIPTION	The PS02 stand is required for placing 1.3L slim PC models into a vertical orientation.
COMPATIBILITY	DX30, DL10J, DS61, DS81, DH110, DH110SE, DH170, DQ170, DH270, DH310, DH370, DH02U



ACCESSORY	PV04
DESCRIPTION	The PV04 (VESA 75/100 mm) can be attached to a wall, monitor, or TV with a VESA standard mounting hole pattern. The PC affixes securely in the metal mount with the screw fittings included.
ITEMS INCLUDED	VESA mount x 1, Thumbscrews x 4 (screws mount to PC), Screws x 4 (screws mount to external device), Quick Guide
REMARKS	Supports 75 and 100 mm VESA standards



ACCESSORY	WLN-M
DESCRIPTION	The WLN-M wireless LAN kit can be used to equip XPC cube and slim series models with the wireless LAN standard 802.11 n/ac at 2.4/5 GHz. The combo device supports Bluetooth 4.0.
REMARKS	M.2 2230 (NGFF) WLAN card, Antenna cable (XPC slim) x 2, Antenna cable (XPC cube) x 2, Dipole antenna x 2, Quick Guide, Driver DVD
OS SUPPORT	Windows 7, Windows 8.1, Windows 10, Linux (32/64 bit)

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