

Fanless Slim PC D 4371BA - more comfort and efficiency at work

Never underestimate the power of small. The robust Shuttle Slim-PC D 4371BA packs dual-core power for multitasking in a compact 1.3L size, providing sufficient power for your daily work and high definition video playback under Windows 8.1. It comes with numerous USB3.0/2.0 ports for external peripherals and also supports dual-display output. Thanks to its fanless cooling architecture it is extremely quiet. It is also big on performance yet extremely energy-efficient, consuming only 11 Watts in idle mode. If you need a silent, reliable Mini-PC in your office or living room then D 4371BA is your perfect choice.

1.3L Slim PC System

D 4371BA

Fix configuration with OS



Feature Highlights

Slim Design	<ul style="list-style-type: none"> • Slim 1.3 litre metal chassis, black • Dimensions: 20 x 16.5 x 3.95 cm (LWH) • Incl. Stand & VESA mount (75/100 mm)
Operating system	<ul style="list-style-type: none"> • Windows 8.1 64 Bit
Processor	<ul style="list-style-type: none"> • Intel Celeron 1037U, Dual Core, 1.8 GHz • Integrated Intel HD graphics • Fanless heat-pipe cooling
Memory	<ul style="list-style-type: none"> • 4 GB DDR3 SO-DIMM memory
Storage	<ul style="list-style-type: none"> • 500 GB SATA hard disk drive, 6.35cm/2.5"
Connectors	<ul style="list-style-type: none"> • HDMI 1.3, DVI-I (supports Dual Monitoing) • 4x USB 3.0, 4x USB 2.0 • SD card reader , 2x Audio (Line out + mic) • Gigabit LAN (RJ45), WLAN 802.11n (Wifi) • Internal slot for optional TPM module • Connector for external power button
Power Supply	<ul style="list-style-type: none"> • External 65 W fanless power adapter
Applications	<ul style="list-style-type: none"> • Office, Home, Digital Signage, etc.

EAN code: 4046047102808
 Shuttle Order-No. PIT-D0437BA2
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Shuttle Slim-PC System D 4371BA – Product Features



Robust, Stylish and Extremely Small

You should have held it in your own hands to appreciate how small it actually is. Barely 1.35 litre in volume, its rigid steel chassis design exudes the level of quality and stability that is required for professional digital signage applications. Despite its diminutive size, the processing power inside the D 4371BA is sufficient to meet the needs of the most demanding multimedia and computational workloads. The well-designed interior of the D 4371BA makes installations and upgrades effortless. Its sleek and stylish look blends seamlessly in both home and office environments.



Ease of hardware upgrade thanks to bay covers

D 4371BA features two practical bay covers at the bottom of the chassis which makes the upgrade of hardware components a breeze.



Intel Core Processor Architecture

The Shuttle Slim PC D 4371BA is equipped with an Intel® Celeron™ 1037U processor which is soldered to mainboard and passively cooled by a large heat-sink. Although the Thermal Design Power (TDP) is 17 watts, the average heat dissipation is much lower. The processor belongs to Intel's third-generation Intel Core processor family (Codename: "Ivy Bridge") with which performance and architecture is fundamentally superior to Atom D2700/D2550 processors. The Celeron 1037U is originally intended for mobile solutions and features 2 MB Cache, dual channel memory interface and a powerful Intel HD graphics chip which is capable of decoding Full HD video.



No fan noise

A large heat sink is concealed behind a plastic cover and cools down the processor in a passive way without any fan. This makes the system very silent and hence perfectly suitable for noise-sensitive environments like e.g. bedroom, library, living room, music studio etc.



Energy-saving

Power consumption mainly depends on system load. Equipped with a 2.5" hard disk, the system consumes about 11W in idle mode and max. 33W under full load. Running the device 5 days a week for eight hours a day, the annual consumption would amount to less than 23 kWh which would mean just 6 Euros on the power bill (25 Euro ct/kWh) - way less than a conventional desktop PC draws.



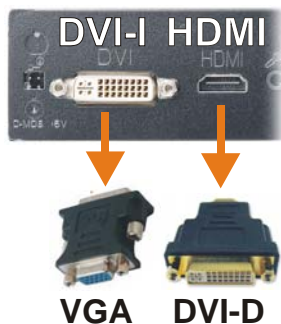
Great Connectivity

Despite its small size, D 4371BA sports a wide range of I/O connectors. Besides an SD card reader, it sports 4x USB 3.0, 4x USB 2.0, 2x digital video, 2x audio, 2x serial ports and one Gigabit LAN connector.



Dual View Technology with HDMI and DVI

D 4371BA features two digital video outputs: HDMI and DVI-I. Dual View technology offers multiple display support on up to two separate monitors. This helps to improve on productivity by allowing for spreading multiple windows across two monitors while working with them simultaneously.



Video outputs

With optional adapters DVI-D devices can be connected to the HDMI port or VGA devices to the DVI-I port, respectively.

- DVI-D** means the connector only outputs digital video signals.
- DVI-I** means digital and analog video signals are put out.
- HDMI** supports digital video plus multi-channel digital audio output.
- D-Sub / VGA** means analog video signals are put out.



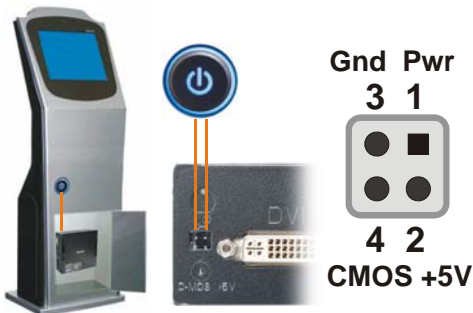
VESA mount

The supplied 75/100mm VESA mount allows D 4371BA to be installed on to walls or just to be affixed on the rear side of a monitor which is particularly interesting for the industry segment, company buildings and public institutions. Besides this, the chassis of D 4371BA provides numerous threaded holes (M3) enabling it to be fitted almost anywhere.



SD Card Reader

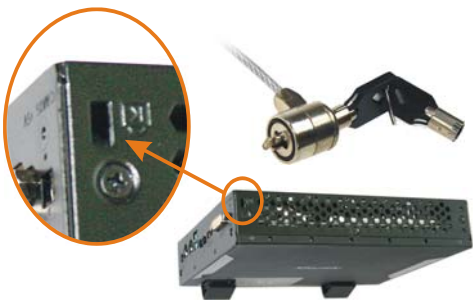
The built-in SD card reader at the front side makes it easy to transfer files from your camera so you can share videos and photos on your D 4371BA with ease. It supports SD, SDHC and SDXC memory flash cards and also supports boot up from bootable SD cards.



External power button by separate remote line

If because of space constraints (e.g. in the case of a fixed installation) the machine cannot be switched on by pressing the front power button, it can be powered on by a separate remote line. You will find an appropriate four-pin-connector at the back panel of D 4371BA (pitch 2.54 mm). In addition, this connector also provides the Clear CMOS function and an external 5VDC voltage supply.

Pin 1-3	Connect external power button (use a temporary switch)
Pin 3-4	Close these pins for 3 seconds to perform a Clear CMOS
Pin 2-3	External +5V DC voltage (Pin 3 = Ground).



Kensington Lock

This is a small, metal-reinforced hole as part of an anti-theft system. D 4371BA provides an appropriate hole on both side of its chassis. The lock-and-cable is not included.



TPM expansion slot

Shuttle D 4371BA can be equipped with an optional Trusted Platform Module (TPM), which offers facilities for the secure generation of cryptographic keys, and limitation of their use, in addition to a random number generator. And it includes capabilities such as remote attestation and sealed storage. The TPM expansion slot is easy accessible behind a chassis cover.

D 4371BA supports the following TPM 1.2 modules:

- Asus TPM Trusted Platform Module TPM/FW3.19
- GIGABYTE TPM-Module GCTPMR-00-GI

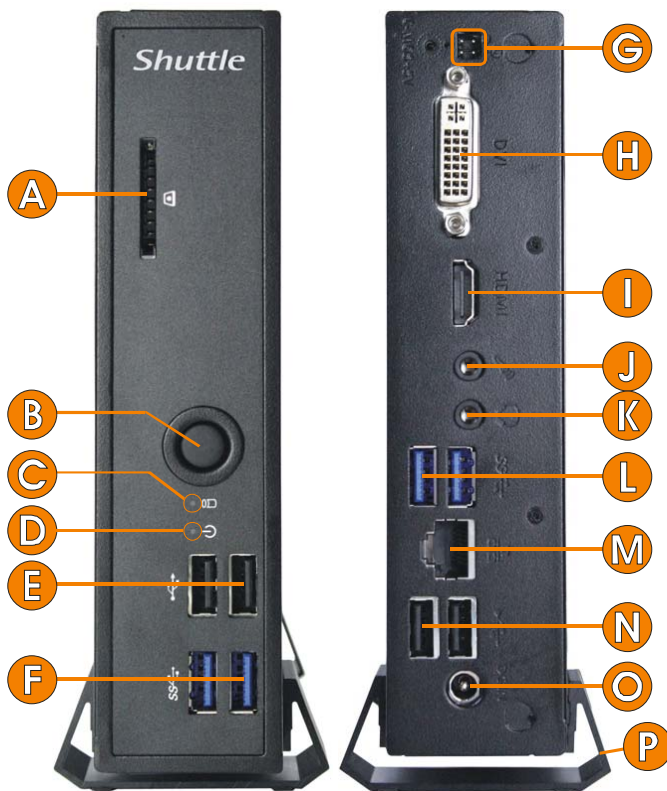


Operating Position

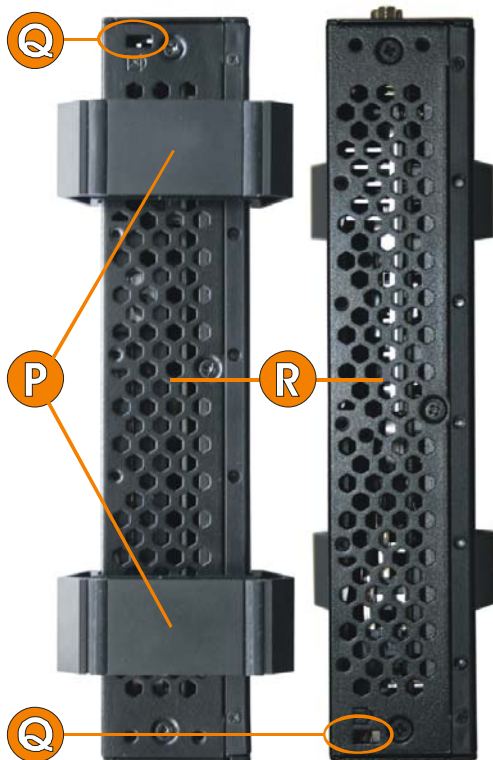
The passive cooling system of D 4371BA uses the convective heat-transfer principle, which requires observing the correct operation position of the device. Please follow these instructions in order to obtain the best possible cooling effect:

- 1) Device must only be used in vertical position with the DVI port facing up
- 2) Please make sure to use either the supplied feet or the VESA mount

Shuttle D 4371BA – Product Views



- A SD card reader
- B On/Off power button
- C Hard disk LED indicator
- D Power LED indicator
- E 2x USB 2.0
- F 2x USB 3.0
- G Pin connector for external power or CMOS button or 5V DC voltage supply
- H DVI-I Video Port
- I HDMI Video Port
- J Microphone input
- K Head phone output
- L 2x USB 3.0
- M RJ45 Gigabit LAN
- N 2x USB 2.0
- O DC connector for external power adapter
- P Stand



*) The WLAN module is included in the scope of delivery. The other components such as hard disk, SSD, memory modules, other expansion cards or TPM modules are only displayed for illustration purposes.

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Shuttle D 4371BA Specifications

<i>Fanless and silent</i>	<p>Passive cooling, no fan noise at all Perfect to be used in noise-sensitive environments Fanless, dust-free and thus virtually maintenance-free</p>
<i>Low power consumption</i>	<p>Power consumption: idle: 10-11W, full load: 22-30W (without/with graphics) (measured with 2x 2GB SO-DIMM, 500 GB 2.5" hard disk)</p>
<i>Chassis</i>	<p>Slim-PC (Nettop) with black chassis made of steel Without cooling fan, passive cooling only The bays for memory, 2.5" drives and Mini-PCIe cards can be easily accessed by removing two cover plates. Dimensions: 200 x 165 x 39.5 mm (LWH) = 1.3 litres Weight: 1.43 kg net and 2.13 kg gross Two holes for Kensington Lock and numerous threaded holes (M3) at both sides of the chassis</p>
<i>Operation position</i>	<p>Operation Position: 1) Device must only be used in vertical position with the DVI port facing up 2) Please make sure to use either the supplied feet or the VESA mount</p>
<i>Operation System</i>	<p>Windows 8.1 64 Bit</p>
<i>Processor</i>	<p>Model: Intel Celeron 1037U (ULV) Code name: Ivy Bridge (3rd Gen. Core) Cores / Threads: 2 / 2 Clock rate: 1.8 GHz L1/L2/L3 cache: 128 kB / 512 kB / 2048 kB Memory controller: DDR3-1333/1600 Dual Channel TDP wattage: 17 W maximum Manufacturing process: 22 nm Socket: FCBGA1023 Enhanced SpeedStep technology Maximum Tjunction Temperature: 105°C Integrated Intel HD graphics engine Supports 64 Bit, VT-x with EPT, Enhanced SpeedStep, NX bit, SSE4</p>
<i>Memory Support</i>	<p>2x SO-DIMM slots with 204 pins Supports DDR3-1333 (PC3-10600) and DDR3-1600 (PC3-12800) SDRAM Supports Dual Channel mode Supports max. 8 GB per DIMM, maximum total size of 16 GB Supports two unbuffered DIMM modules (no ECC)</p>
<i>Storage</i>	<p>500 GB Serial ATA hard disk in 6.35cm/2.5" format</p>

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<i>Card reader</i>	<p>Integrated USB card reader Supports SD, SDHC and SDXC memory flash cards Supports boot up from SD card</p>
<i>Integrated graphics</i>	<p>Intel HD graphics Clock rate: 350~100 MHz Maximum resolution: 1920x1200 (analog or digital) Execution Units (EU): 6 Supports two independent screens Supports DirectX 11.1, OpenGL 4.0 Supports full AVC/VC1/MPEG2 hardware decoding HDMI supports HD video plus multi-channel digital audio via a single cable</p>
<i>Mainboard Chipset BIOS</i>	<p>Shuttle Mainboard FS47 All capacitors are high quality solid capacitors Chipset: Intel® NM70 Express Supports resume after power failure Supports Wake on LAN (WOL) Supports Power on by RTC Alarm Supports boot from USB devices and SD card reader AMI BIOS in 8 Mbit EEPROM with SPI interface Supports hardware monitoring and watch dog functionality Supports Unified Extensible Firmware Interface (UEFI) [1]</p>
<i>Power Adapter</i>	<p>External 65 W power adapter (fanless) Input: 100~240 V AC, 50/60 Hz, max. 1.6 A Output: 19 V DC, max. 3.42 A, max. 65 W DC Connector: 5.5/2.5mm (outer/inner diameter)</p>
<i>Mini-PCIe slot</i>	<p>Half size Mini PCI Express expansion slots (occupied with a WLAN module)</p>
<i>Audio</i>	<p>Audio Realtek® ALC 662 High-Definition Audio (5.1 channel) Two analog audio connectors (3.5mm) at the back panel: 1) 2 channel line out (head phone) 2) microphone input Digital multi-channel audio output: via HDMI</p>
<i>Gigabit LAN Controller</i>	<p>Realtek 8111G Ethernet network controller (Gigabit) Supports 10 / 100 / 1.000 MBit/s operation Supports WAKE ON LAN (WOL) Supports network boot by Preboot eXecution Environment (PXE)</p>
<i>Wireless Network (WLAN)</i>	<p>Built-in Mini-PCIe WLAN card (half size) and internal antenna Single-Chip 1T1R WLAN Controller Realtek RTL8188CE Supports IEEE 802.11b/g/n, max. 150 Mbps up-/downstream Security: WPA/WPA2(-PSK), WEP 64/128bit, IEEE 802.11x/i</p>

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<p><i>Front Panel Connectors</i></p>	<p>2x USB 3.0 2x USB 2.0 SD card reader (supports SD, SDHC, SDXC) Power button Power LED (blue) HDD LED (yellow)</p>
<p><i>Back Panel Connectors</i></p>	<p>HDMI 1.3 connector (supports DVI-D with optional adapter) DVI-I connector (supports VGA with optional adapter) 2x USB 3.0 2x USB 2.0 Gigabit LAN (RJ45) Microphone input Audio Line-out (headphone) DC-input connector for external power adapter 4 pin connector (2.54 mm pitch) for power button, Clear CMOS and 5V DC [4] Perforation for optional Wireless LAN antennas (2 holes)</p>
<p><i>Other Onboard Connectors</i></p>	<p>LPC port (low pin count), 2x 10 pins for optional TPM module [2] Connector for CMOS battery (with battery) Fan connector (4 pins) not occupied</p>
<p><i>Scope of delivery</i></p>	<p>Two metal feet VESA mount for 75/100mm standard (two metal brackets) Four thumbscrews M3 x 5 mm (screws together VESA mount and PC) Four screws M4 x 10 mm (to fix the VESA mount to the external device) Three screws M3 x 4 mm and a rack (to mount a 2.5" storage into the bay) Driver DVD (Windows 8 / 7 / XP) External power adapter with power cord</p>
<p><i>Environmental Specifications</i></p>	<p>Operating temperature range: 0~35 °C Relative humidity, non-condensing: 10~90%</p>
<p><i>Conformity Certifications</i></p>	<p>EMI: FCC, CE, BSMI, C-Tick Safety: CB, BSMI, ETL, CCC This device is classed as a technical information equipment (ITE) in class B and is intended for use in living room and office. The CE-mark approves the conformity by the EU-guidelines: - EMV-guideline 89/336/EWG electromagnetic tolerance - LVD-guideline 73/23/EWG use of electric devices within certain voltage-limits</p>

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Footnote:

[1] **Unified Extensible Firmware Interface (UEFI)** - required when booting from hard disks larger than 2.2 TB

[2] **LPC port**

This expansion slot is compatible with the following TPM 1.2 modules:

- Asus TPM Trusted Platform Module TPM/FW3.19
- GIGABYTE TPM-Module GCTPMR-00-GI

[3] **mini-SATA (mSATA)**

not to be confused with the "micro SATA" connector, is a newer industry standard which converts the electrical SATA interface (1.5 or 3.0 Gbit/s) to the physical "Mini PCI Express" mini card form factor.

[4] **Four pin header at the back panel**

This header allows for connecting an external power button.

It also provides 5V DC voltage for external devices and the Clear CMOS function.

Supplied accessory: VESA mount with screws



SKUs of the DS437T series:

	Type	UPC / EAN code	Order No.	Operation System	Hard Disk	RAM
DS437T	Barebone	811686006541	PIB-DS437T01	-	-	-
D 4371XA	System w/o OS	4046047102815	PIC-DS437T01	-	500 GB	4 GB
D 4371BA	System with OS	4046047102808	PIT-D0437BA2	Windows 8.1 64 Bit	500 GB	4 GB

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