Robust, reliable and flexible: the 1.3 litre PC with powerful Intel desktop processor

Shuttle's D 6100BA is a slim, but powerful Slim PC with an Intel LGA1155 desktop processor offering the best quality, performance and connectivity to meet the requirements of processing high quality digital media. D 6100BA helps you build an affordable media player. The possibilities of this PC are highly versatile. With its robust metal chassis and outstanding temperature range the D 6100BA is an industrial-grade signage platform designed for long-term, smooth and reliable operation.

1.3L Slim PC System
D 6100BA

Feature Highlights

Slim Design	• Slim 1.3 litre metal chassis, black • 190 x 165 x 43 mm (LWH) • Operating temperature: 0~50°C • Including VESA mount (75/100 mm)
Operating system	• Windows 7 Professional 64 Bit
Processor	• Intel Core i3-3220, LGA1155 socket
Chipset	• Intel H61 Express Chipset
Memory	• 4 GB DDR3-1333 SO-DIMM memory
Graphics	• Integrated Intel HD graphics (features depends on processor) • Video-outputs: HDMI and DVI-I
Storage	• 60 GB SSD (SATA, 2.5")
Connectors	• HDMI, DVI-I • 2x Audio (Line out and microphone) • 2x USB 3.0 rear, 4x USB 2.0 front • SD card reader • Dual Gigabit LAN (RJ45), supports WOL, PXE • 2x COM ports (RS232 + RS232/RS422/RS485) • Connector for external power button
Optional	• Internal WLAN module w/ external antenna
Power Supply	• External 90W fanless power adapter
Application	• Digital Signage, POS, control PC, Office, …
Warranty	• 24 Months Pick-Up-And-Return Service

Images for illustration purposes only

Product name: D 6100BA
EAN bar code: . 4046047102570
Shuttle order code: PIT-D0610BA1

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50°C

Operating temperature

Connectivity / Applications

The D 6100BA's great connectivity makes it well-suited for a wide field of applications and external devices.

Point-of-Sales (POS)

Office Display

Dual-Network

RS232

DVI-I

2x RJ45

PC Speakers

RS422/485

Audio

HDMI

USB 2.0

USB 3.0

Automation

Home Cinema & Digital Signage

Peripherals

USB hard disk

The D 6100BA is your powerful 1.3-litre Slim-PC solution for high performance driven applications, e.g.:

- Digital Signage
- In-store Audio/Video entertainment
- Gambling
- Home-Media
- Office
- Call Center
- Education
- Kiosk
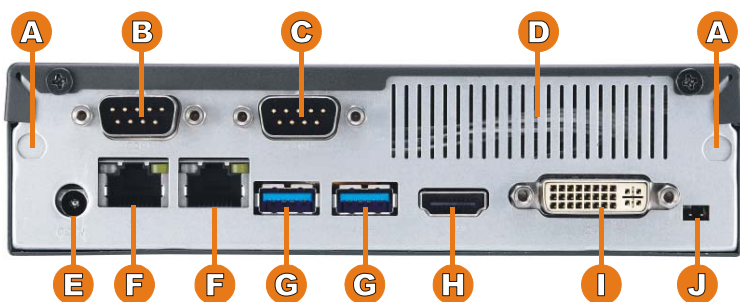- Point of Sales (POS)
- Medical
- Automation
- Small server

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Shuttle D 6100BA – Front and Back Panel

Front view

1. SD Card Reader
2. Power LED
3. Hard disk LED
4. Power Button
5. 4x USB 2.0
6. Microphone input
7. Headphone output

Rear view

A. 2x WLAN perforation
B. RS232/RS422/RS485
C. RS232
D. Ventilation grille
E. DC power input
F. 2x RJ45 Gigabit LAN
G. 2x USB 3.0
H. HDMI video port
I. DVI-I video port
J. Connector for external power button
K. 2x holes for Kensigton Lock
L. VESA mount (two parts)

Right side

Left side

COM port Pin 9 Configuration

Pin 9 is a multi-functional signal. Based on Jumper JP2 configuration on the mainboard, it can be configured as Ring Indicator (RI) or external power supply with either 5V or 12V voltage level (each COM port separately).

Shuttle D 6100BA Specifications

Chassis	Nettop PC with black chassis made of metal Dimensions: 190 x 165 x 43 mm (LWH) = 1.35 litresStorage bays Two holes for Kensington Locks (at both sides of the chassis)
Processor	Intel Core i3-3220 Sockel LGA1155 2 Kerne, 4 Threads Taktfrequenz: 3,3 GHz Intel Smart Cache: 3 MB Max. Verlustleistung: 55 W Lithographie: 22 nm "Ivy Bridge" Integriert: Intel HD Graphics 2500 Grafik-Taktrate: 650-1050 MHz
Processor Cooling	Processor cooling with heat pipe technology and two fans (6cm)
Memory	4 GB DDR3-1333 SO-DIMM-memory
SSD Storage	60 GB SATA SSD storage drive in 6.35 cm / 2.5" form factor
Operation System	Microsoft Windows 7 Professional, 64 Bit version 6 languages available: German, English, French, Dutch, Italian, Spanish
Mainboard Chipset BIOS	Chipset: Intel® H61 Express Chipset AMI BIOS in 8Mbit EEPROM with SPI interface All capacitors are high quality solid capacitors Supports hardware monitoring and watch dog functionality Supports Unified Extensible Firmware Interface (UEFI) [2] Supports resume after power failure
Power Adapter	External 90W power adapter (fanless) Input: 100~240V AC, 50/60 Hz, Output: 19V DC, 4.74A, max. 90W
Integrated Graphics	Intel® HD Graphics 2500, DirectX 11 Maximum shared memory size: 1692MB Supports HDMI, max. resolution up to 1920x1200 @ 60Hz Supports DVI, max. resolution up to 1920x1200 @ 60Hz Supports D-Sub, max. resolution up to 2048x1536 @ 75Hz (optional VGA-to-DVI-adapter required) Supports Blu-ray Stereoscopic 3D with HDMI 1.3/ 1.4a [1] Supports HDCP function with DVI and HDMI ports Supports Full HD 1080p Blu-ray (BD) / HD-DVD playback with DVI and HDMI ports Supports Dual-Independent-Display via HDMI and DVI-I port HDMI supports HD video plus multi-channel digital audio via a single cable

Mini-PCIe slots	1x Mini PCI Express expansion slot, full size supports PCIe 2.0, SATA 3G and USB 2.0 e.g. for Mini SATA (mSATA) flash memory cards [5]
Audio	Realtek® ALC 662 High-Definition Audio (5.1 channel) Two analog audio connectors (3.5mm) at the front panel: 1) 2 channel line out (head phone) 2) microphone input Digital multi-channel audio output: via HDMI
Dual Gigabit LAN Controller	Dual Realtek 8111E Ethernet network controller (Gigabit) Supports 10 / 100 / 1.000 MBit/s operation With two RJ45 ports (dual network) supports Teaming [3] Supports WAKE ON LAN (WOL) Supports network boot by Preboot eXecution Environment (PXE)
Card reader	Integrated card reader supports SD, SDHC and SDXC memory flash cards Supports boot up from SD card.
Front Panel Connectors	Microphone input Audio Line-out (headphone) 4x USB 2.0 (upgrade from 2 to 4 ports in Q1/2013) SD card reader Power button Power LED (blue) HDD LED (yellow)
Back Panel Connectors	HDMI connector [1] (supports DVI-D with optional adapter) DVI-I connector (supports VGA with optional adapter) 2x USB 3.0 2x GigaBit LAN (RJ45) 2x RS232 serial ports (5V/12V, 1x switchable to RS422 / RS485) DC-input connector for external power adapter 2 pin connector for power on button Optional: internal WLAN module (802.11n) with external antenna
Other Onboard Connectors	2x SATA 2.0 (3 Gb/s) 6x USB 2.0 (three 2x5 pin headers) 2x USB 2.0 (2x5 pin, occupied by the front panel) 2x fan connectors (3pin and 4 pin) for the system fans Clear CMOS jumper (2 pins) Digital audio: S/PDIF output (3 pins) Connector for CMOS battery (with battery) 2x10 pins LPC interface (2 mm pitch size) 2x front panel connectors (for audio) Power connector for SATA drives (4 pins) LVDS and converter conntector Jumpers for panel voltage and converter voltage select

Environmental Specifications	Operating temperature range: 0~50°C Relative humidity, non-condensing: 10~90%
Conformity Certifications	EMI: FCC, CE, BSMI, C-Tick Safety: CB, BSMI, ETL 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
Further configuration options	It is possible to modify certain components of this basic configuration. Please refer to the "Shuttle Systems Configurator".
Warranty	24 Months Pick-Up-And-Return Service

[1] HDMI version supported
HDMI 1.4 is not supported by all LGA1155 processors. Some models support HDMI 1.3 only.

[2] Unified Extensible Firmware Interface (UEFI)
required when booting from hard disks larger than 2.2 TB under Windows 64 bit operating systems such as Windows 7, Windows Vista SP1 and Windows Server 2008/2003 SP1.

[3] Teaming Mode
The teaming function allows you to group both available network adapters together to function as a single adapter - a method of creating a virtual LAN. The benefit of this approach is that it enables load balancing and failover.

[4] Optional Wireless LAN module:
this Slim PC supports an optional WLAN module, which consists of a half-size Mini-PCIe card with IEEE 802.11n functionality and an external antenna with appropriate antenna cable.

[5] 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 pysical "Mini PCI Express" mini card form factor.

Shuttle DS61 Series Product Comparison

Model	Type	OS	RAM	SSD	Order no	Bar code
DS61	Barebone	-	-	-	PIB-DS61011	811686004202
D 6100B	System	Configurable (BTO)			PIK-D0610B01	-
D 6100BA	System	Windows 7 Professional	4 GB	64 GB SSD	PIT-D0610BA1	4046047102570
D 6100XA	System	-	4 GB	64 GB SSD	PIC-DS61011	4046047102549