

DX30

FANLESS SLIM PC



PROCESSOR	Intel® Celeron® J3355, SoC 14 nm	
MEMORY	2 x DDR3L SODIMM 1600 MHz slots, Supports dual channel up to 8GB (4GB x 2)	
VIDEO GRAPHICS	Intel HD Graphics 500	
VIDEO OUTPUT	HDMI + DisplayPort, Supports triple independent displays	
AUDIO	Realtek ALC662, 2 channel HD audio	
ETHERNET	Intel i211 Gigabit LAN 10/100/1000 MB/s operation	Supports Wake on LAN function
STORAGE INTERFACE	SATA 6 GB/s	
ONBOARD CONNECTORS	(1) analog VGA graphics output	(1) jumper JP5 for power on after power fail
FRONT PANEL	(1) Power Button (1) Power LED (1) HDD LED (1) Microphone input	(1) Headphone output (2) USB 3.0 (1) SD Card Reader
BACK PANEL	(1) HDMI (1) DisplayPort (1) VGA (4) USB 2.0 (1) Gigabit LAN port (2) Kensington Lock	(1) Clear CMOS connector (1) Wireless Antenna connector (perforation for 2nd antenna available) (1) DC-in (1) RS232 (1) RS232/RS422/RS485 (1) PS/2 combo port
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 2.1A or 12V 3.33A DC	40W 19V power supply
ACCESSORIES	Quick Guide Screw package 40W power adapter Power cord	VESA mount VESA mount screws External antenna Driver DVD
EXPANSION SLOT	(1) M.2. MAX to 2280 Type BM	(1) M.2 MAX to 2230 Type AE key socket
OS SUPPORT	Windows 10 64 bit, Linux 64 bit	

For more information on all products, please contact us at sales@us.shuttle.com or 626.820.9000

© 2018 Shuttle Computer Group, Inc. All rights reserved. Specifications are subject to change without notice. Not responsible for any photographic or typographic errors. Photos shown may vary from actual look. Intel, the Intel logo, and Intel Core are trademarks of Intel Corporation or its subsidiaries in the US and/or other countries. ©Intel Corporation

DX30

FANLESS SLIM PC

CHASSIS	Black slim type metal chassis Kensington lock slot on both sides of chassis Dimensions: 7.5 (L) x 6.5 (W) x 1.7 (H) inches Weight: 2.86 LBS (net) / 4.6 LBS (gross)
POWER SUPPLY	External 40W power adapter (fanless) AC input voltage: 100 - 240V, 50 - 60 Hz, max 1.6A Output: 19V DC 3.42A
OPERATING SYSTEM	The system comes without an operating system installed. Compatibility: Windows 10, Linux 64 bit
PROCESSOR SUPPORT	Intel® Celeron® J3355 Dual Core 14 nm structure, Apollo Lake platform CPU cores/threads: 2/2, L2 cache: 2 MB CPU clock frequency: 2.0 GHz, max Turbo frequency: 2.5 GHz Max supported processor power consumption (TDP): 10W Supports AES-NI, VT-x (EPT), VT-d, Secure Boot System on chip processor (SoC) with integrated graphics processor, no chipset required
FANLESS COOLING	Silent passive cooling, no fan noise at all Suitable for noise sensitive environments Fanless, dust-free and virtually maintenance free
MEMORY SUPPORT	2 x 204 pin SODIMM slots Supports DDR3L 1600/1866 (PC3-12800/14900) SDRAM at 1.35V Supports Dual Channel mode Supports a max. of 8GB per DIMM, up to 8GB total (1 x 8 GB or 2 x 4 GB) Supports two unbuffered DIMM module (no ECC) DDR3L has a lower operation voltage as compared to DDR3
M.2 SLOT	M.2 2280 BM slot provides the following interfaces: PCI-Express Gen 2.0 X4, SATA v3.0 (6 GB/s) interface Supports M.2 cards with a width of 22 mm and a length of 42, 60, or 80 mm (type 2242/2260/2280). Supports M.2 SATA SSDs (with BM key) and PCI-E SSDs (with M key).
AUDIO	Realtek® ALC 266 audio codec Two analog audio connectors (3.5 mm) on the back panel: 2 channel line-out (headphones), Microphone input
WIRED NETWORK	RJ45 connector supports Gigabit LAN at 10/100/1000 MB/s Intel i211 ethernet controller with MAC, PHY, PCIe interface Supports Wake on LAN
WIRELESS NETWORK	M.2 2230 WLAN card with Realtek RTL8188EE controller Supports IEEE 802.11 b/g/n Max 150 MB/s up-/downstream (1T1R) at 2.4 GHz One external antenna supplied
ENERGY EFFICIENT	Power consumption in idle mode: 4.6W Power consumption under full load: 11.3W / 17.6W (CPU/CPU + graphics) Consumption measured with 2 x 4 GB DDR4 2400 SODIMMs and 120 GB 2.5" SSD under Windows 10 64 bit
INTEGRATED GRAPHICS	Intel HD 500 graphics, GPU clock rate: 250 - 700 MHz Supports DirectX 12, OpenGL 4.3, OpenCL 1.2, OpenGL ES 3.0, Intel Quick Sync Video, Intel Clear Video (HD) This model has the following video outputs: -HDMI 1.4b (3840 x 2160/30 Hz or 1920 x 1200/60Hz) -DisplayPort 1.2 (4096 x 2160/60Hz) -optional VGA (1920 x 1200/60Hz) [2]* Supports two digital displays simultaneously via HDMI and DisplayPort Supports an additional analog display if optional VGA port is installed [2]*

For more information on all products, please contact us at sales@us.shuttle.com or 626.820.9000

DX30

FANLESS SLIM PC

UEFI FIRMWARE	16MB flash ROM with AMI's Aptio UEFI BIOS Firmware Based on the Unified Extensible Firmware Interface (UEFI) [1]* Supports Power fail resume/AC power on state/always on/always off [3]* Supports Wake-on-LAN from S3, S4, S5 ACPI states Supports boot up from external flash memory cards With embedded Firmware TPM v2.0 (fTPM)	
CARD READER	Integrated card reader supports SD, SDHC, SDXC memory flash cards Supports boot up from SD card	
STORAGE	Supports one 2.5" SATA hard disk or SSD drive, max height 12.5 mm Supports SATA III, 6 GB/s bandwidth Supports Unified Extensible Firmware Interface (UEFI) Pre-installed SATA cable (data/power)	
FRONT PANEL CONNECTORS	SD Card Reader USB 3.0 x 2 Microphone input Headphones output	Power button Power indicator (Blue LED) Hard disk drive indicator (Yellow LED)
BACK PANEL CONNECTORS	HDMI v1.4b DisplayPort v1.2 USB 2.0 x 4 Gigabit LAN (RJ45) PS/2 combo	RS232 x 2 [6]* External WLAN antenna (perforation for 2nd antenna available) DC-input connector for external power adapter Clear CMOS connector (4 pin)
INCLUDED ACCESSORIES	XPC installation guide Driver DVD Screw pack	External 40W power adapter with cord VESA mount (75/100mm standard) VESA mount screws
OPTIONAL ACCESSORIES	VGA output (PVG01)	Vertical stand (PS02)
ENVIRONMENTAL CRITERIA	Operating temperature: 0 - 40°C	Humidity: 10 - 90% (non-condensing)
CERTIFICATIONS	EMI: FCC, CE, BSMI, RCM, VCCI, R&TTE Other: RoHS, Energy Star, ErP Safety: ETL, CB, BSMI, CCC	
	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) (4) 1999/5/EC related to Radio and Telecommunications Terminal Equipment (R&TTE)	

For more information on all products, please contact us at sales@us.shuttle.com or 626.820.9000

© 2018 Shuttle Computer Group, Inc. All rights reserved. Specifications are subject to change without notice. Not responsible for any photographic or typographic errors. Photos shown may vary from actual look. Intel, the Intel logo, and Intel Core are trademarks of Intel Corporation or its subsidiaries in the US and/or other countries. ©Intel Corporation

DX30

FANLESS SLIM PC

[1] UEFI FIRMWARE (VERSUS BIOS)

Like many modern PCs, the DX30 does away completely with a BIOS but uses a pure UEFI firmware instead. The hardware initializing is now performed by the UEFI and the operating system must be installed and executed in UEFI mode. The UEFI creates a GUID Partition Table (GPT) on the system partition instead of a Master Boot Record (MBR). A PC running pure UEFI firmware alone must have a 64 bit operating system installed.

[2] OPTIONAL VGA CONNECTOR

The mainboard features one analog graphics card port CN6. This signal can be lead to the outside as a 15 pin VGA connector on the back panel using an optional adapter PVG01. However doing so means one serial port (COM) will be replaced.

[3] POWER ON AFTER POWER FAIL

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, (3) keep system turned off. This function may fail after short power failures, but the DX30 comes with a hardware based solution in these cases. By removing the Jumper JP2 on the mainboard (behind the power button), the system will start unconditionally once power is supplied.

[4] HDMI OUTPUT

The HDMI output supports DVI-D with an optional adapter

[5] HOW TO CONVERT DISPLAYPORT INTO HDMI/DVI

The DisplayPort output can be converted into a HDMI or DVI output using an additional passive adapter cable. The integrated graphics automatically detects the connected display and outputs the appropriate electric signal - either DisplayPort (without an adapter) or HDMI/DVI (with an adapter). However, a monitor with a DisplayPort connector cannot be connected to the HDMI port with a simple passive adapter.

[6] SERIAL PORTS

This PC features two serial RS232 ports with 9 pin D-sub connectors on the back panel. The left COM port (COM1) can also be configured as RS422 and RS485 in the BIOS setup. Based on the Jumper JP2 configuration on the mainboard, it can be configured as Ring Indicator (RI) or external power supply with a voltage level of either 5V or 12V (each COM port can be configured separately; the maximum current is 500 mA per connector).

BIOS DOWNLOADS: <http://global.shuttle.com/products/productsDownload?productId=2114>

SUPPORT LIST: <http://global.shuttle.com/products/productsSupportList?productId=2114>

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

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

For more information on all products, please contact us at sales@us.shuttle.com or 626.820.9000

© 2018 Shuttle Computer Group, Inc. All rights reserved. Specifications are subject to change without notice. Not responsible for any photographic or typographic errors. Photos shown may vary from actual look. Intel, the Intel logo, and Intel Core are trademarks of Intel Corporation or its subsidiaries in the US and/or other countries. ©Intel Corporation

DX30

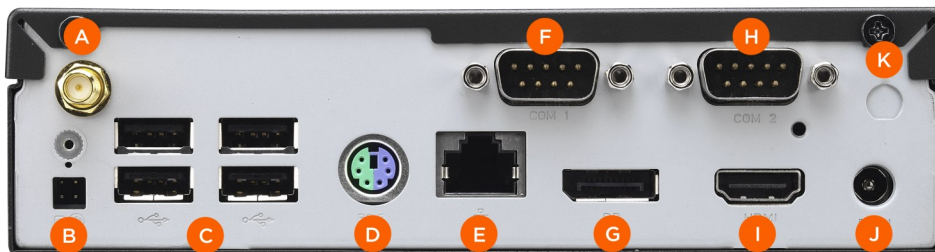
FANLESS SLIM PC

Front View



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

Back View



- | | |
|----------------------------|----------------------------|
| A WLAN antenna connector | G DisplayPort video output |
| B Clear CMOS connector | H COM2 (RS232) |
| C USB 2.0 x 4 | I HDMI video output |
| D PS/2 combo port | J DC power input |
| E RJ45 Gigabit LAN port | K Antenna perforation |
| F COM1 (RS232/RS422/RS485) | |

DX30

FANLESS SLIM PC



EQUIPPED WITH INTEL® CELERON PROCESSOR

The DX30 supports Intel® Apollo Lake platform technology with a 14 nm Intel® Celeron® J3355 dual core processor. Integrated Intel® HD graphics support 4K video encoding and decoding with H.265 and VP9.



VESA MOUNTABLE

The supplied 75/100mm VESA mount allows for installation of the DX30 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.



GREAT CONNECTIVITY WITH MULTIPLE I/O

With multiple USB 2.0 ports, USB 3.0, PS/2 port, as well as two RS232*, peripherals such as barcode scanners, receipt printers, keypads and other devices can be easily connected. The DX30 is easily configured for peripheral heavy POS, kiosk, and digital signage systems.

*in order to have three displays, a VGA port adapter accessory (PVG01) will need to be purchased. If the VGA port is installed, it will replace one RS232 port



FANLESS DESIGN

With a passive thermal cooling system, the fanless design reduces power consumption required by a fan. Use with solid state disks for an operational platform completely free of noise.



24/7 NONSTOP OPERATION

Officially approved for 24/7 nonstop operation, the DX30 provides stable operation to run reliably for long-term demands of digital signage or other vertical applications.

For more information on all products, please contact us at sales@us.shuttle.com or 626.820.9000

© 2018 Shuttle Computer Group, Inc. All rights reserved. Specifications are subject to change without notice. Not responsible for any photographic or typographic errors. Photos shown may vary from actual look. Intel, the Intel logo, and Intel Core are trademarks of Intel Corporation or its subsidiaries in the US and/or other countries. ©Intel Corporation

DX30

FANLESS SLIM PC



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, DS57U, DS67U, DS77U, NC02U, NC03U



ACCESSORY	PVG01
DESCRIPTION	The PVG01 equips compatible slim PCs with an analog VGA output. For the slim 1L PCs, this means only one serial interface (COM1) can be used after installation.
ITEMS INCLUDED	PVG01 adapter, installation guide, screws x 2
SPECIFICATIONS	Cable length: 6.3 inches Back panel connector: 15 pin mini VGA female socket Internal connector: subminiature 2x10 pin, female

For more information on all products, please contact us at sales@us.shuttle.com or 626.820.9000

© 2018 Shuttle Computer Group, Inc. All rights reserved. Specifications are subject to change without notice. Not responsible for any photographic or typographic errors. Photos shown may vary from actual look. Intel, the Intel logo, and Intel Core are trademarks of Intel Corporation or its subsidiaries in the US and/or other countries. ©Intel Corporation

XS36V5 vs DX30

FANLESS SLIM PC



MODEL	XS36V5	DX30
CHIPSET	Intel Celeron N3050	Intel Celeron J3355
PROCESSOR SUPPORT	SoC, max TDP 15W, 1.6 - 2.16 GHz 14nm Braswell	SoC, max TDP 15W, 2 - 2.5 GHz 14nm Apollo Lake
MEMORY	2 x 4 GB DDR3L 1600 MHz max	2 x 4 GB DDR4 1600/1866 MHz max
VIDEO OUTPUT	HDMI + DisplayPort + VGA, Supports triple displays, Supports 4K Ultra HD	HDMI + DisplayPort, Supports triple displays,* Supports 4K Ultra HD
GRAPHICS	Intel HD Graphics (8th gen)	Intel HD Graphics 500
AUDIO	Realtek AL269, HD audio	Realtek AL662, HD audio
ETHERNET	Intel i211 Gigabit LAN 10/100/1000 MB/s operation Supports Wake on LAN function	Intel i211 Gigabit LAN 10/100/1000 MB/s operation Supports Wake on LAN function
TPM	-	Firmware TPM v2.0
FRONT PANEL	Power button with LED, HDD LED, SD Card Reader, USB 2.0 x 1, RS232 x 2	Power button with LED, HDD LED, SD Card Reader, USB 3.0 x 2
BACK PANEL	HDMI, DisplayPort, VGA USB 2.0 x 4, PS/2 combo Gigabit LAN (Intel i211) Clear CMOS button COM ports (RS232 x 1, RS422/RS485 x 1)	HDMI, DisplayPort, optional VGA USB 3.0 x 2, USB 2.0 x 2 Gigabit LAN (Intel i211) Clear CMOS button COM ports (RS232 x 1, RS422/RS485 x 1)
DRIVE BAYS	(1) 2.5" HDD/SSD bay	(1) 2.5" HDD/SSD bay
ACCESSORIES	Optional VESA mount (PV03)	Vertical Stand (PS02) VESA mount (PV04)
EXPANSION SLOT	Mini PCI-E slot (WLAN)	M.2 2280 M slot M.2 2230 AE slot
OS SUPPORT	Windows 8, Linux (64 bit)	Windows 10, Linux (64 bit)

*For three displays on the DX30, the VGA port accessory will need to be purchased (VGA will replace one RS232 port if installed)

For more information on all products, please contact us at sales@us.shuttle.com or 626.820.9000

© 2018 Shuttle Computer Group, Inc. All rights reserved. Specifications are subject to change without notice. Not responsible for any photographic or typographic errors. Photos shown may vary from actual look. Intel, the Intel logo, and Intel Core are trademarks of Intel Corporation or its subsidiaries in the US and/or other countries. ©Intel Corporation