

Shuttle®

3.5L Slim PC Barebone

XH81V

Efficient & Powerful



ULTRA-COMPACT

3.5 Liter Slim PC Barebone

The Shuttle XH81V delivers power and performance needed in the most demanding work environment. The 3.5 Liter chassis enables a balanced platform for creating a solution that's as powerful – or energy-efficient – as you want it to be to your office or business. It is powered by the combination of Intel® H81 Express Chipset and supports Intel® Haswell 4th generation Core™ i3/i5/i7 65W Processor family to ensure innovative capabilities and performance. Featured with high definition multimedia interface such as HDMI and DisplayPort that supports 4K Ultra HD, the XH81V offers you the perfect solution for applications whether in Digital Signage, KIOSK, retail/Point of Sale, POS or more.

PRODUCT SPECIFICATIONS

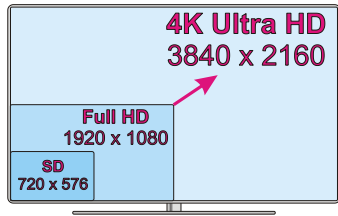
Slim Design	<ul style="list-style-type: none">• Slim 3.5 Liter Chassis, Black• Dimensions: 9.5 x 8 x 3 Inches (LWH)• Bays: 2x 6.35cm/2.5" for hard disks or SSDs and 1x optical slimline drive
Processor	<ul style="list-style-type: none">• Supports LGA1150 "Haswell" processors: Core i7 / i5 / i3, Pentium, Cel. (max. 65W)• Includes Heat-Pipe Cooling System
Chipset	<ul style="list-style-type: none">• Intel H81 Express Chipset
Memory	<ul style="list-style-type: none">• 2x 204 pin SO-DIMM slots• Supports DDR3-1333/1600, max. 2x 8 GB
Graphics	<ul style="list-style-type: none">• Integrated Intel HD graphics supports 4K (Depending on processor)• Video outputs: HDMI 1.4 & DisplayPort 1.2
Drive Connectors	<ul style="list-style-type: none">• 3x Serial ATA (2x 6 Gbit/s and 1x 3 Gbit/s)• Two pre-installed SATA cables (HDD+ODD)
Other Connectors	<ul style="list-style-type: none">• 5.1 HD Audio (digital audio via HDMI/DP)• 2x USB 3.0 front, 6x USB 2.0 (2 front, 4 rear)• Dual Gigabit LAN (RJ45), supports WOL, PXE• 2x COM ports (RS232 + RS232/RS422/RS485)
Optional Accessories	<ul style="list-style-type: none">• Vertical stand (PS01)• VESA mount (PV02)• VGA port adapter (PVG01)• WLAN kit (WLN-S)
Power Supply	<ul style="list-style-type: none">• External 90W Fanless Power Adapter
Applications	<ul style="list-style-type: none">• Home, office, vertical market
Operating Temp.	<ul style="list-style-type: none">• 50 C / 122 F



>> SUPPORTS THREE DRIVES

The XH81V supports one optical drive in 5.25" slimline format and two 2.5" drives (e.g. hard disk and SSD). The second 2.5" drive requires an additional SATA cable and mounting screws which is not included.

Note: The storage drives (hard disk and optical drive) are not included in the delivery of XH81V.



>> SUPPORTS 4K ULTRA HD AT 60Hz

The XH81V supports one display running at 4K (3840 x 2160 / 2160p) high resolution when connected to its DisplayPort video output. As the successor to the Full HD standard, Ultra HD delivers a four times higher resolution with a wider colour space and colour depth.

An Intel Core i3 processor or higher is recommended for smooth 4K (2160p) video playback.



>> EXTENDED TEMPERATURE RANGE AND RELIABILITY

The XH81V is outstandingly robust thanks to its tough chassis, and with an operating temperature range of 0-50 °C it is suitable for use in the most demanding environments. Designed entirely using all solid capacitors, XH81V is guaranteed to deliver maximum stability, reliability and longer system lifetime for long-term applications like digital signage.

Caution: for high ambient temperature over 40°C we recommend to use Solid State Disks (SSDs) instead of Hard Disk Drives (HDDs).



>> DUAL GIGABIT LAN NETWORK

Today's media-rich communications across the internet and within enterprises create need for bandwidth. This is why Shuttle applies Gigabit-LAN performance to their Mini PCs and XH81V even supports two of them. Dual networking allows the computer to connect to a single network using two cables at once with an appropriate switch (teaming mode with load balancing or failover function) or to two different networks depending on the needs of the user.



>> TWO SERIAL PORTS

Many PCs do not have these legacy ports any longer, since they have been superseded and replaced by USB for most consumer applications, but they are still commonly used for applications such as industrial automation systems, scientific analysis, POS systems and other industrial applications. The XH81V features two serial RS-232 ports which also support both 5 or 12V auxiliary voltage. The lower COM port also supports the RS422 and RS485 standard.



>> 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 behaviour after power failure: (1) unconditional power on, (2) restore former status or (3) keep system turned off. As a matter of the nature of this function, it may fail after short power failures. This is why the XH81V also comes with a hardware-based solution. By removing Jumper 4 (see image) the system will start unconditionally once power is applied.