Shuttle®

Digital Signage Security Mini-Server POS / POI NAS

Product Guide 2014

Superb for Home, Work, Business and Industrial applications

www.shuttle.com

Contents

About Shuttle

Established in 1983, Shuttle Inc. is based in Taiwan with an extensive worldwide network of subsidiaries, resellers, partners and suppliers. With over 30 years in desktop relative design, manufacturing and work with Intel®, AMD, and NVIDIA, Shuttle has the affirmed superior quality of products and services. Keeping "Innovation, Quality, Integrity and Service" in mind, Shuttle produces the best quality products at a competitive cost to meet its customer's needs. Shuttle has received numerous international awards due to its advanced thermal technology and mechanical design and has passed ISO 9001 and ISO 14001 certifications.

Since the creation of the world's first-ever mini-PC in 2001, Shuttle Inc. has been recognized as an industry leading designer and manufacturer of small form factor (SFF) computers and accessories for consumer and commercial sectors. Experienced in small form factors and thermal technology, Shuttle XPCs are now applied to Digital Signage, Point-Of-Sales, Kiosk, and Access control vertical solutions. Shuttle offers its vertical customers the most cost effective and customizable hardware solution options. Shuttle's product profile includes a range of entry level to high performance Slim PCs, Mini PCs, All-in-One PCs, Biometric solutions, and Network Attached Storage platforms. With 30 years of R&D experience, Shuttle has launched into the private cloud storage market with its own brand, OMNINAS. All Shuttle products use the highest quality materials and parts, with excellent cooling technology and low-power consumption.

Whether your business operates in hospitality, retail, banking, transportation, government, healthcare, education, or security, Shuttle can provide the solution you're looking for to increase your competitiveness in business.

Shuttle Unique Features

Always Cooled
Shuttle's innovation in thermal heat pipe technology is a key ingredient to its success in small form factor design. The slim PC and All-in-one models adopt a heat pipe cooling design while the XPC series features Shuttle's Integrated Cooling Engine (ICE™) to efficiently cool the system. ICE™ uses heat conduction, convection, and thermal radiation processes to disperse waste heat from inside the computer while smart vents create continuous airflow.
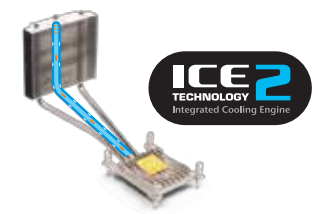
Always Slim and Compact
Shuttle systems are slim and compact, designed to be easily integrated into digital signage, kiosk, video wall, menu board, and POS applications. Shuttle provides its customers with flexible options, including the Slim series, All-in-One, and XPC models. Whether for entry-level or high-performance applications, Shuttle has built-in as much flexibility and performance into each product as possible to support the latest innovations in each segment.

Always Green
Shuttle's digital signage models use an exclusive low-power and low-noise design. All products have been tested to meet international energy saving standards and the power-saving requirement of the 2013 Energy-related Products Lot 6 (ErP Lot 6). The fanless models are completely silent and allow the systems to operate with low-noise and high stability.

24/7 Nonstop Operation
All of Shuttle's digital signage models are 24/7 certified and deliver continuous low power operation. In addition, all XPC models have received 80 PLUS Certification. 80 PLUS is an initiative to promote energy efficiency in computer power supply units. Shuttle provides stable operation and energy savings, making them well-suited for vertical markets.

Support HD Video & Multi-display
Shuttle uses high performance processors, allowing customers smooth playback of a variety of Full HD and even UHD 4K videos. Shuttle's high-end models can even be used for video walls, providing customers with the best solutions for multiple digital signage applications.

The Watchdog – Protecting System Security
The full range of Shuttle's digital signage players support watchdog security functions for digital signage systems that need to operate continuously for long periods of time. Watchdog is an electronic timer that is used to detect and recover from computer malfunctions, giving customers peace of mind that unmonitored digital signage systems will not fail.

Note: All of Shuttle's computer products have passed power loop, endurance, high and low operational temperature loop, structural strength, durability, and thermal shock+vibration tests in an environment with ambient temperatures between 0°C~50°C (0°C~40°C for fanless models).

4K

DS81

Smart Fan

Ultra HD
4K

nonstop
24/7

4K High Performance Digital Signage Player - DS81 & XH81 series

Compact, extremely powerful slim PCs built to meet the requirements of high-end digital signage and kiosk applications. Shuttle's 81 series are among the highest performing signage players on the market, designed to support highly interactive software and deliver UHD 4K graphics. The barebone platforms support 4th generation Intel® Core™ i3/i5/i7 processors with built-in Intel® HD graphics and offer lots of room for expansion via two mini PCIe slots. The series is made with quality materials to ensure highly stable and long-term continuous operation. The ultra slim 1 liter and 3 liter clients are VESA mount-ready and easily integrated into display devices and kiosks with limited space. The series features advanced thermal technology with a smart fan plus heat pipe module, keeping the system at very low temperatures.

Deliver Ultra HD (4K) resolution

Built to drive stunning visual graphics with UHD 4K video resolution. With one built-in HDMI port and two DisplayPorts, the series delivers dual display output to monitors of all sizes with compatible resolution.

Heat Pipe Cooling Technology – 24/7 Operation

The 81 series are made with Shuttle's exclusive heat pipe technology and smart fan design. Ventilation slots are precisely placed around the devise, creating constant air flow and removal of waste heat away from the system. Adopting ball bearing fans for a longer life span than traditional sleeve bearing fans, the design makes for a cool, whisper-quiet, and stable 24/7 operation.

Multiple I/O for Greater Connectivity

Designed to power hardware systems that require lots of peripheral connectivity. The 81 series has robust I/O interface with full USB 2.0 and USB 3.0 ports, COM ports, Display ports and HDMI ports, in addition to dual LAN ports. The XH81 can also be fitted with five COM ports* for applications which require additional connectivity to peripherals.

*The XH81 front panel can be configured with either three (3) COM ports or one (1) ODD bay depending on customer preference.

4K
3840 x 2160

Full HD
1920 x 1080

Application Fields

4K Digital Signage

Self-service Kiosk

Vending Machine
(XH81 ONLY)

Digital Whiteboard
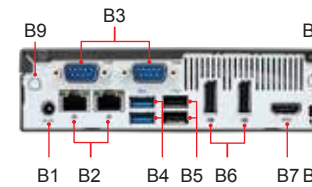
Office
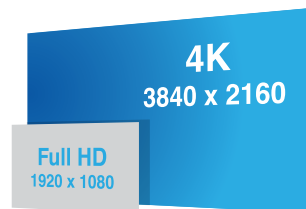
DS81 Front Panel

F1 F2 F3 F4   F5   F6   F7

F1. Microphone Jack
F2. Headphone Jack
F3. Power LED
F4. HDD LED
F5. Power Button
F6. SD Card reader
F7. USB 2.0 Port

XH81 Front Panel

F7

F1 F2 F3 F4 F2 F5 F6

F1. USB3.0 Port
F2. USB2.0 Port
F3. Mic-In
F4. Headphone
F5. Power Switch / Power LED
F6. HDD LED
F7. Slim ODD Bay

DS81 Back Panel

B9   B3   B9

B1 B2   B4 B5 B6   B7 B8

B1. Power Connector
B2. LAN Port
B3. COM Port
B4. USB 3.0 Port
B5. USB 2.0 Port
B6. Display Port
B7. HDMI Port
B8. Clear CMOS & External Power on header
B9. Antenna hole

XH81 Back Panel

B9 B10   B11 B12

B1   B2 B3 B4   B5   B6 B7 B8
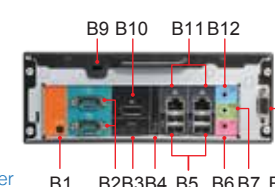
B1. DC Power Port
B2. COM1 Port (RS232/RS422/RS485)
B3. HDMI Port
B4. C-CMOS
B5. USB2.0 Port
B6. Mic-In Port
B7. Line-Out Port
B8. D-Sub (VGA) Port
B9. Kensington Lock
B10. Display Port
B11. LAN Port
B12. Line-In Port

Specification

		DS81	XH81/ XH81V
Supported Processor		Intel® 4th Generation LGA1150 CPU Intel® Core i3/i5/i7, Pentium®, Celeron® processor Support Haswell™ / Haswell re-fresh ™ Max. 65W CPU	
Chipset		Intel® H81 Express	
Video Engine Processor		Intel® HD Graphics Series integrated in CPU (Dynamic Video Memory)	
Memory		2x DDR3 1600 MHz SODIMM, Max. 16GB	
Internal Storage		SATA 3G/6G interface / SD card	SATA 3G/6G interface
Storage Bays		1x 2.5" HDD or SSD	1x 2.5" HDD or SSD 1x 12.7mm Slim ODD
Audio		HD 5.1 channel	
Network		10/100/1000 Mbps (2x RJ45, support Teaming) 802.11 b/g/n WIFI (optional, support mini PCI-e Wirless LAN Module)	
I/O	Video	(1) HDMI, (2) Display port	(1) HDMI, (1) Display port
	Audio / MIC	(1) Line out, (1) MIC	(1) Line out, (1) Line in, (1) MIC
	USB 3.0 / USB 2.0	(2) USB 3.0, (6) USB 2.0	
	RS232	(1) RS232, (1) RS232,RS422,RS485	
	Mini-PCIE	Full-Size Mini-PCIe slot supports mSATA SSD	
		Half-size Mini-PCIe slot supports WLAN	
Other		Power On After Power Failure / Resume From RTC / Resume From S3/S4/S/5 Wake On LAN / Support Wireless Antenna Ports x2 / Support External Power Switch Pin (DS81 only) Support Kensington Lock / Support VESA mount / Support WatchDOG	
Power Supply (Adapter)		100~240V AC (with 90W external adapter/ DC19V,4.74A)	
Operating system		Windows 7, Windows 8, Linux	
Certificate		CB, CE, BSMI, ETL, CCC, FCC, C-Tick, RoHS	
Dimension (L/W/H) mm		190 x 165 x 43	240 x 200 x 72
Weight	NW (kg)	1.3	2.2
	GW (kg)	2.05	3.5
Material		Metal	
Accessories (Optional)		WLN-S (WLAN kit)	PS01 (Stand) / PV02 (VESA mount kit) WLN-S (WLAN kit)

DS61 V1.1 Front Panel

F2 F1 F2 F3 F4
F7
F5 F6
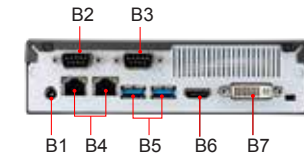
F1. Power Button
F2. USB2.0 Port
F3. Power LED
F4. HDD LED
F5. Mic-In
F6. Headphone
F7. SD Card Reader

XH61V Front Panel

F3 F1
F4 F2
F5 F6 F7 F5
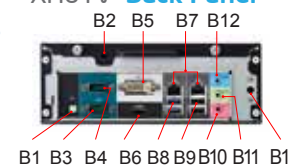
F1. Power Switch / Power LED
F2. HDD LED
F3. ODD and Front I/O Bay
F4. Slim ODD Bay
F5. USB2.0 Port
F6. Mic-In
F7. Headphone

DS61 V1.1 Back Panel

B2 B3
B1 B4 B5 B6 B7

B1. DC IN
B2. RS232/RS422/RS485
B3. RS232
B4. LAN Port
B5. USB3.0 Port
B6. HDMI Port
B7. DVI-I Port

XH61V Back Panel

B2 B5 B7 B12
B1 B3 B4 B6 B8 B9 B10 B11 B13

B1. S/PDIF Out Port
B2. Kensington Lock
B3. COM1 Port (RS232/RS422/RS485)
B4. COM2 Port (RS232)
B5. DVI-I Port
B6. HDMI Port
B7. LAN Port
B8. USB3.0 Port
B9. USB2.0 Port
B10. Mic-In Port
B11. Line-Out Port
B12. Line-In Port
B13. DC Power Port

DS61 V1.1

XH61V

Smart Fan

Full HD
1920 x 1080

nonstop 24/7

Core i7 High Performance Digital Signage Player - DS61V1.1, XH61V

Shuttle's 61 series is a slim but powerful digital signage platform offering quality, performance, and connectivity to meet the processing requirements of high quality digital media. These products adopt Shuttle's exclusive heat pipe cooling module with Smart Fan design. Their energy consumption is as low as 90W and features ultra-low noise operation. The series is made for easy installation into digital signage and kiosk hardware systems with low energy consumption. Shuttle's 61 series supports Intel® Sandy/Ivy Bridge Core™ i3/i5/i7 65W high-performance processors with built-in Intel® HD Graphics. These products also have built-in RS232/RS422/RS485 interfaces to meet a variety of application needs.

Flexible choice of processor to meet versatile application needs

Shuttle's 61 series products support 3rd Generation Intel® Core™ i3/i5/i7 processors. A number of CPUs can be selected to meet various needs, improve performance, and meet a variety of application requirements

Heat pipe cooling Technology

Shuttle's smart fan plus heat pipe cooling module uses a copper block with capillary vacuum design to absorb heat inside the machine. Ventilation slots are precisely placed around the device, creating constant air flow and removal of waste heat away from the system for a stable and long-term operation.

VESA Mount Capability

The compact DS61 V1.1 has multiple screw holes specially designed on the side of the body. The design complies with International VESA Mount Standards while still allowing users to choose the most appropriate back hanging configuration and placement. This space saving feature is perfect for digital signage applications with limited space.

Application Fields

Lage LCD Digital Signage
Self-service Kiosk
Digital Whiteboard
Thin Client
Small office

Specification

	DS61 V1.1	XH61V
Supported Processor	Intel® 2nd / 3rd Generation LGA1155 Socket Intel® Core i3/i5/i7, Pentium®, Celeron® processor Supports Sandy Bridge™ 65W CPU / Ivy Bridge™ 65W CPU	
Chipset	Intel® H61 Express	
Video Engine Processor	Intel® HD Graphics Series integrated in CPU (Dynamic Video Memory)	
Memory	2x DDR3 1333 MHz, Max. 16GB	
Internal Storage	SATA 3G interface / SD card	SATA 3G interface
Storage Bays	1x 2.5" HDD or SSD	1x 2.5" HDD or SSD 1x 12.7mm Slim ODD
Audio	HD 2 channel	HD 5.1 channel
Network	10/100/1000 Mbps (2x RJ45, support Teaming) 802.11 b/g/n WIFI (optional, support mini PCI-e Wirless LAN Module)	
I/O	Video	(1) HDMI, (1) DVI-I	
	Audio / MIC	(1) 3.5mm Lin out, (1) 3.5mm MIC in	
	USB 3.0 / USB 2.0	(2) USB3.0, (4) USB2.0	
	RS232	(1) RS-232, (1) RS232 / RS422 / RS485, Support 5V & 12V	
	Mini-PCIE	Full-Size Mini-PCIe slot support mSATA SSD or WLAN	Full-Size Mini-PCIe slot supports mSATA SSD Half-Size Mini-PCIe slot support WLAN
Other	Power On After Power Failure / Resume From RTC / Resume From S3/S4 / Wake On LAN Support Wireless Antenna Ports x2 / Support External Power Switch Pin (DS61 V1.1 only) Support 2x holes for Kensigton Lock / Support VESA mount / Support WatchDOG	
Power Supply (Adapter)	100~240V AC (with 90W external adapter/ DC19V,4.74A)	
Operating system	Windows XP, Windows 7, Windows 8, Linux	
Certificate	CB, CE, BSMI, ETL, CCC, FCC, C-Tick, RoHS	
Dimension (L/W/H) mm	190 x 165 x 43	240 x 200 x 72
Weight	NW (kg)	1.3	2.2
	GW (kg)	2.05	3.5
Material	Metal	
Accessories (Optional)	WLN-S (WLAN kit)	PS01 (Stand) / PV02 (VESA mount kit) WLN-S (WLAN kit)

Shuttle®

DS437

Fanless

Full HD
1920 × 1080

nonstop 24/7

Full HD & Fanless Digital Signage Player – DS437 Series

The DS437 series features an ultra slim platform with enough processing power to meet the demands of today's digital signage and kiosk innovations for Full HD video and rich interactive media. The DS437 has a mere body thickness of 39.5mm and integrates an Intel® high-performance Celeron dual-core processor. The fanless design ensures 24/7 reliable operation at cool temperatures over extended periods of time. The series boasts a strong I/O interface for connecting to peripherals, including built-in COM ports (DS437 only), USB 2.0, USB 3.0, Gigabit LAN, HDMI, and DVI-I interface. Customers can enjoy display of Full HD digital media with impressively low power consumption (65W).

Fanless Design

The DS437 series uses a thermal heat pipe module to transmit heat throughout the device quickly and evenly. Ideal for commercial applications where continuous operation is required, high cooling efficiency is achieved without cooling fans. With smart vent design, the waste heat inside the computer can be removed quickly and efficiently.

Support dual-screen display

Shuttle's DS437 series provides HDMI and DVI-I dual-screen display to support HD video content. An adaptor can be used to convert HDMI into DVI interface and DVI-I port into D-Sub interface to diversify signal selection options for dual monitor and standalone display.

VESA Mount Capability

The compact DS437 series has multiple screw holes specially designed on the side of the body. The design complies with International VESA Mount Standards while still allowing users to choose the most appropriate back hanging configuration and placement. This space saving feature is perfect for digital signage applications with limited space.
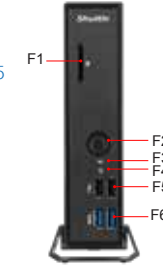
Application Fields

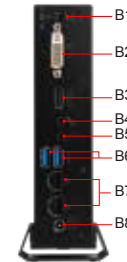Full HD Digital Signage   Self-service Kiosk   Thin Client   Small Office
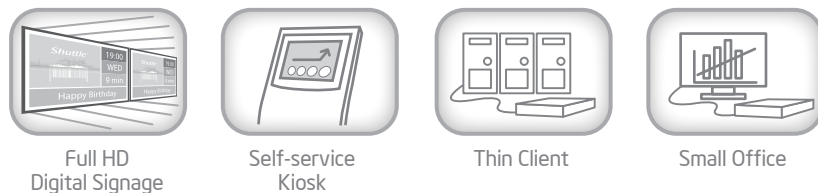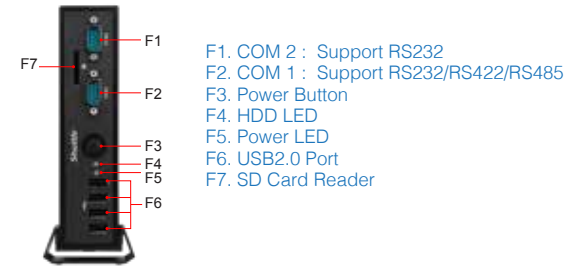
DS437 Front Panel

F1. COM 2 : Support RS232
F2. COM 1 : Support RS232/RS422/RS485
F3. Power Button
F4. HDD LED
F5. Power LED
F6. USB2.0 Port
F7. SD Card Reader

DS437T Front Panel

F1. SD Card Reader
F2. Power Button
F3. HDD LED
F4. Power LED
F5. USB2.0 Port
F6. USB3.0 Port

DS437 Back Panel

B1. Clear CMOS &
    External Power on header
B2. DVI-I Port
B3. HDMI Port
B4. Mic-In
B5. Headphone
B6. USB3.0 Port
B7. LAN Port
B8. DC IN

DS437T Back Panel

B1. Clear CMOS &
    External Power on header
B2. DVI-I Port
B3. HDMI Port
B4. Mic-In
B5. Headphone
B6. USB3.0 Port
B7. LAN Port
B8. USB2.0 Port
B9. DC IN

Specification

	DS437	DS437T
Integrated Processor	Intel® Celeron™ 1037U processor ,Max. TDP 17W	
Chipset	Intel® NM70	
Video Engine Processor	Intel® HD Graphics integrated in CPU (based on Ivy Bridge)	
Memory	2x DDR3 1333 MHz, Max. 16GB	
Internal Storage	SATA 6G interface / SD card	
Storage Bays	1x 2.5" HDD or SSD	1x 2.5" HDD or SSD
	Full-Size Mini-PCIe slot supports mSATA SSD	N/A
Audio	HD 5.1 channel	
Network	10/100/1000 Mbps (2x RJ45)	10/100/1000 Mbps (1x RJ45)
	802.11 b/g/n WIFI (mini PCI-e Wirless LAN Module)	
I/O — Video	(1) HDMI, (1) DVI-I	
I/O — Audio / MIC	(1) 3.5mm Lin out, (1) 3.5mm MIC in	
I/O — USB 3.0 / USB 2.0	(2) USB3.0, (4) USB2.0	(4) USB3.0, (4) USB2.0
I/O — RS232	(1) RS232, (1) RS232/RS422/RS485	N/A
Other	Power On After Power Failure / Resume From RTC / Resume From S3/S4 / Wake On LAN Support Wireless Antenna Ports x2 / Support External Power Switch Pin / Support WatchDOG Support 2x holes for Kensington Lock / Support VESA mount / Support TPM Module (DS437T only)	
Power Supply (Adapter)	100~240V AC (with 65W external adapter/ DC19V,3.42A)	
Operating system	Windows XP, Windows 7, Windows 8, Linux	
Certificate	CB, CE, BSMI, ETL, CCC, FCC, C-Tick, RoHS	
Dimension (L/W/H) mm	200 x 39.5 x 165	
Weight — NW (kg)	1.3	
Weight — GW (kg)	2.05	
Material	Metal + Plastic	
Accessories	Stand, VESA mount kit	

Shuttle®

XS36V4

Fanless

Low Cost

nonstop 24/7

Affordable Full HD Digital Signage Player - XS35V4 & XS36V4

Shuttle's new XS35V4 and XS36V4 signage players are capable of playing full HD video flawlessly, designed for POS, POI, queuing machine and digital signage applications. Both are equipped with an Intel® Bay Trail processor for lower-power consumption and energy saving. The XS35V4 and XS36V4 feature a respective body thickness of only 38.5mm and 36mm and an ideal cooling thermal module design to ensure long-term stable and silent operation without a cooling fan. The combination of VESA mount capability and Multiple I/O interface, including built-in USB2.0 and USB3.0 ports, D-sub, HDMI, display ports, COM ports, and Gigabit LAN makes for easy connectivity with peripheral devices.

Fanless Design

The XS35V4 and XS36V4 use a thermal heat pipe module to transmit heat throughout the device quickly and evenly. Ideal for commercial applications where continuous operation is required, high cooling efficiency is achieved without cooling fans. With smart vent design, the waste heat inside the computer is removed quickly and efficiently.

Intel® Bay Trail Platform Technology

The XS35V4 and XS36V4 are equipped with Intel® Bay Trail platform technology, using a 22 nm Intel® Celeron® processor with energy saving. The CPU integrated Intel® HD graphics is capable of playing Full HD video flawlessly.

Energy Saving & Extremely Quiet

Shuttle's exclusive low-power design and fanless cooling module results in a 34%-38% reduction in noise during system operation as compared to regular computers. This extremely quiet operation is suitable to application environments that demand quietness. In addition, a mere 40 watts of power is sufficient to maintain normal system operation.

Save Power

Application Fields
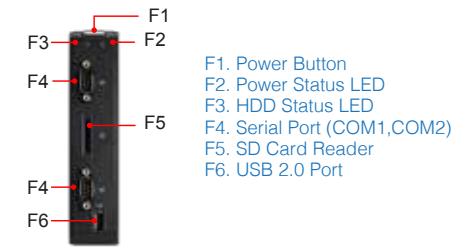
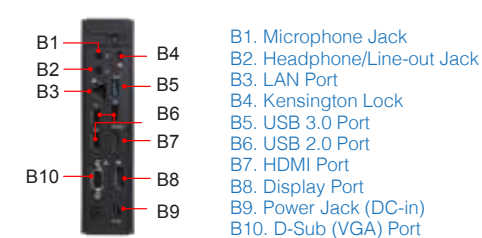Digital Signage | Thin Client | Small office | KIOSK | POS
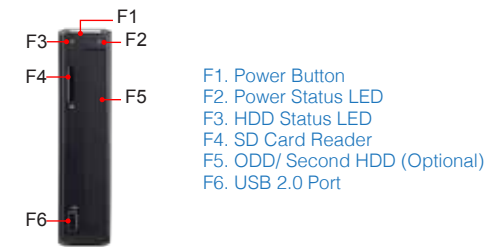
XS35V4 Front Panel

F1. Power Button
F2. Power Status LED
F3. HDD Status LED
F4. SD Card Reader
F5. ODD/ Second HDD (Optional)
F6. USB 2.0 Port

XS36V4 Front Panel

F1. Power Button
F2. Power Status LED
F3. HDD Status LED
F4. Serial Port (COM1,COM2)
F5. SD Card Reader
F6. USB 2.0 Port

XS35V4 Back Panel

B1. Microphone Jack
B2. Headphone/Line-out Jack
B3. LAN Port
B4. Kensington Lock
B5. USB 3.0 Port
B6. USB 2.0 Port
B7. HDMI Port
B8. Display Port
B9. Power Jack (DC-in)
B10. D-Sub (VGA) Port

XS36V4 Back Panel
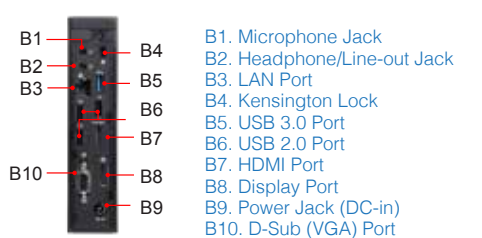
B1. Microphone Jack
B2. Headphone/Line-out Jack
B3. LAN Port
B4. Kensington Lock
B5. USB 3.0 Port
B6. USB 2.0 Port
B7. HDMI Port
B8. Display Port
B9. Power Jack (DC-in)
B10. D-Sub (VGA) Port

Specification

		XS35V4	XS36V4
Supported Processor		Intel Celeron J1900 processor	
Chipset		N/A	
Video Engine Processor		Intel HD Graphic	
Memory		DDR3L 1333Mhz Max. support 8GB	
Internal Storage		SATA 3G interface / SD card	
Storage Bays		1x 2.5" HDD or SSD 1x 12.7mm Slim ODD	1x 2.5" HDD or SSD
Audio		HD 2 channel	
Network		10/100/1000 Mbps X1 / 802.11 b/g/n WIFI (mini PCI-e Wirless LAN Module)	
I/O	Video	(1) HDMI, (1) Display port, (1) D-sub	
	Lin out/ MIC in	(1) 3.5mm Lin out, (1) 3.5mm MIC in	
	SD Card Reader	Yes	
	USB 3.0 / USB 2.0	(1) USB3.0, (4) USB2.0	
	RS232	N/A	(2) RS-232 with 0/5V/12V support
Other		Power On After Power Failure resume / Wake up From RTC timer / Resume From S3/S4 Wake On LAN / Support 1x holes for Kensigton Lock / Support VESA mount / Support WatchDOG	
Power Supply (Adapter)		100~240V AC (with 40W external adapter/ DC19V,2.1A)	
Operating system		Windows 7, Windows 8	
Certificate		CB, CE, BSMI, ETL, CCC, FCC, C-Tick, RoHS	
Dimension (L/W/H) mm		252 x 162 x 38.5	200 x 160 x 36
Weight	NW (kg)	2.1	1.6
	GW (kg)	2.8	2.3
Material		Plastic	
Accessories (Optional)		PV01(VESA mount kit) PHD2(Support second hard disk drive accessory)	PV03 (VESA mount kit)

XS35 series **Front Panel**

F1. Power Button
F2. Power Status LED
F3. HDD Status LED
F4. SD Card Reader
F5. ODD/ Second HDD (Optional)
F6. ODD Eject Button
F7. USB 2.0 Port
F8. Vertical Stand

XS36VL **Front Panel**

F1. Power Button
F2. Power Status LED
F3. HDD Status LED
F4. Serial Port (COM1,COM2)
F5. SD Card Reader
F6. USB 2.0 Port
F7. Vertical Stand

XS35 series **Back Panel**
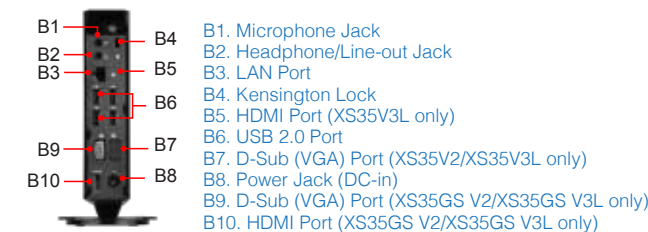
B1. Microphone Jack
B2. Headphone/Line-out Jack
B3. LAN Port
B4. Kensington Lock
B5. HDMI Port (XS35V3L only)
B6. USB 2.0 Port
B7. D-Sub (VGA) Port (XS35V2/XS35V3L only)
B8. Power Jack (DC-in)
B9. D-Sub (VGA) Port (XS35GS V2/XS35GS V3L only)
B10. HDMI Port (XS35GS V2/XS35GS V3L only)

XS36VL **Back Panel**
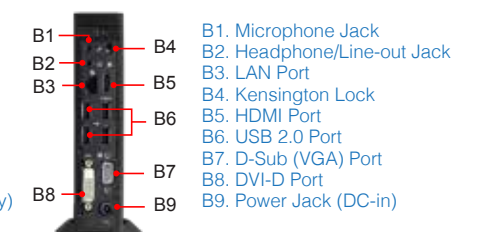
B1. Microphone Jack
B2. Headphone/Line-out Jack
B3. LAN Port
B4. Kensington Lock
B5. HDMI Port
B6. USB 2.0 Port
B7. D-Sub (VGA) Port
B8. DVI-D Port
B9. Power Jack (DC-in)

XS36VL

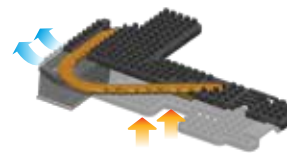XS35 series

Fanless

Low Cost

nonstop **24/7**

Cost effective Digital Signage Player - XS35 & XS36 series

Shuttle's slim multimedia player XS35 and XS36 series is an affordable fanless solution for business applications, such as POS, POI, and Digital Signage. The XS35 and XS36 series is equipped with Intel® Cedar Trail-D platform technology as well as an energy saving Intel® Atom™ dual-core processor. The compact XS35 and XS36 series feature a respective body thickness of only 38.5mm and 36mm and come VESA mount-ready for easy configuration. In addition, the series is rigged with multiple I/O to support single or dual display and connect to peripherals.

Fanless Heat Pipe Cooling Technology

The XS35 and XS36 series use a thermal heat pipe module to transmit heat throughout the device quickly and evenly. With smart vent design, waste heat is removed quickly and efficiently without the use of cooling fans to maintain high stability for long-term operation.

Energy Saving & Extremely Quiet

Shuttle's exclusive low-power design and fanless cooling module result in a 34%-38% reduction in noise during system operation as compared to regular computers. This extremely quiet operation is suitable to application environments that demand quietness. In addition, a mere 40 watts of power is sufficient to maintain normal system operation.
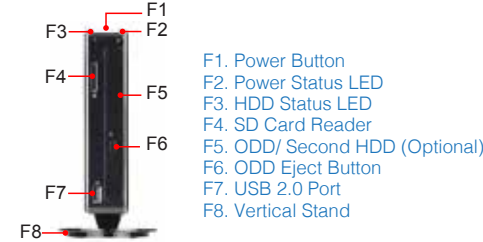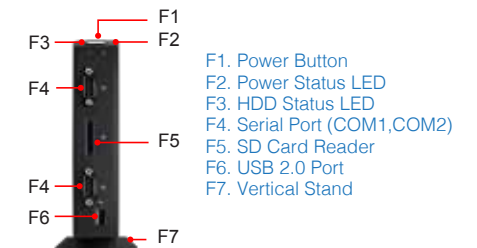
Save Power

Noise Comparison Table

	Idle Mode	Full load Mode
Regular computer(dBA)	27.6	32.4
Shuttle XS35 and XS36 series(dBA)	18.2	20.1
Reduction (%)	34%	38%

Application Fields

Digital Signage   Thin Client   POS   KIOSK   Small Office

Specification

	XS35V2	XS35GS V2	XS35V3L	XS35GS V3L	XS36VL
Integrated Processor	Intel® Atom™ D525 processor		Intel® Atom™ D2550 processor		
Chipset	Intel® NM10				
Video Engine Processor	Intel® GMA 3150	AMD Mobility Radeon™ HD7410M	Intel® GMA 3650	AMD Mobility Radeon™ HD7450M	Intel® GMA 3650
Memory	1x DDR3 800MHz, Max. 4GB		2x DDR3 1066 MHz, Max. 4GB		
Internal Storage	SATA 3G interface / SD card				
Storage Bays	1x 2.5" HDD or SSD / 12.7mm Slim ODD bay				1x 2.5" HDD or SSD
Audio	HD 2 channel				
Network	10/100/1000 Mbps (1x RJ45) , 802.11 b/g/n WIFI				
I/O — Video	(1) VGA	(1) VGA, (1) HDMI			(1) VGA, (1) HDMI, (1) DVI-D
I/O — Audio / MIC	(1) 3.5mm Lin out, (1) 3.5mm MIC in				
I/O — USB 2.0	(5) USB2.0				
I/O — RS232	N/A				(2) RS232
Other	Power On After Power Failure / Resume From RTC / Resume From S3/S4 Wake On LAN (XS35V3L, XS35GS V3L, XS36VL only) / Support 1x holes for Kensington Lock Support VESA mount / Support WatchDOG				
Power Supply (Adapter)	100~240V AC (with 40W external adapter/ DC19V,2.1A)				
Operating system	Windows XP, Windows 7, Linux		Windows 7 32bit	Windows XP Windows 7, Linux	Windows 7 32bit
Certificate	CB, CE, BSMI, ETL, CCC, FCC, C-Tick, RoHS				
Dimension (L/W/H) mm	252 x 38.5 x 162				200 x 36 x 160
Weight — NW (kg)	2.1				1.6
Weight — GW (kg)	2.8				2.3
Material	Plastic				
Accessories (Optional)	PV01 (VESA mount kit) PHD2 (Support second hard disk drive accessory)				PV03 (VESA mount kit)

X50 series Front/Rear/Side Panel

01. Stand / Handle
02. Microphone
03. Webcam
04. LCD Display
    (X50V2 PL non-touch)
05. WiFi LED
06. Hard disk drive LED
07. Power LED
08. Stereo speaker
09. Power Switch
10. Stylus pen
11. SD card reader
12. MIC-In Port
13. Audio Line-Out Port
14. LAN Port
15. USB Port
16. Stand / Handle
17. HDMI Port
18. USB Port
19. VGA Port
20. Power input
21. Printer Port
22. COM Port
23. Kensington Lock

X70 series Front/Rear/Side Panel

01. Webcam
02. Microphone
03. LCD Display
    (Single/Multi/Non Touch)
04. SD Card Reader
05. Power LED
06. Stereo speaker
07. Microphone Jack
08. Headphone / Line-out Jack
09. Lan Port
10. USB 3.0 Port COM Port
11. HDMI Port
12. USB 2.0 Port
13. Clear CMOS Button
14. DC in
15. COM Ports (Optional)
16. Printer Port (Optional)
17. COM Ports (Optional)
18. Stand / Handle
19. Kensington Lock
20. Thermal Vent
21. Power Button
22. USB 2.0 Port
23. USB 2.0 Port
24. SD Card Reader

All-in-One Touch for Business Solutions – X50 & X70 series

Shuttle's All-in-One X50 and X70 series is made to be applied in a variety of business settings, including POS, POI, Kiosk, control system, queuing machine and communication platforms. Both the X50 and X70 series models support touch function*, and adopt a compact and stylish design with built-in I/O interfaces for diverse peripheral connection. The X50 series fanless design adopts a heat pipe cooling module to satisfy the demands of high operational stability while reducing customers' maintenance costs.

*Note: The X50V2 PL and X70N do not support touch function.

Heat Pipe Cooling Design

Shuttle's All-in-one thermal cooling module uses heat pipe technology to disperse heat throughout the system quickly and evenly. The series uses smart vent design to remove waste heat from inside the computer and maintains cool operation of the system.

24/7 Nonstop Operation and Energy Saving

Shuttle's All-in-one's have passed stability testing for 24/7 nonstop operation. Integration of Shuttle's low-power design with the new Intel® dual-core processors results in reduced costs of operation.

A Variety of Expansion Interfaces for Easy Connection to Peripherals

Shuttle's All-in-one models provide a diverse I/O interface in addition to an optional RS232/LPT accessory for customers who need added connectivity with peripherals. These models are fit for vertical application such as POI, POS, KIOSK, queuing machine and Digital Signage.

Application Fields

Queuing System | Retail POS | Public-web KIOSK | Information KIOSK | Intercom System

Specification

		X50V2 PL	X50V2 Plus	X50V3L	X70S/M/N
Supported Processor		Intel® Atom™ D525 processor		Intel® Atom™ D2550 processor	Intel® 2nd / 3rd Generation LGA1155 Socket Intel® Core i3/i5/i7, Pentium®, Celeron® processor Supports Sandy / Ivy Bridge™ 65W CPU
Chipset		Intel® NM10			Intel® H61 Express
Video Engine Processor		Intel® GMA 3150		Intel® GMA 3650	Intel® HD Graphics Series integrated in CPU (Up to 1GB DRAM)
Memory		2x DDR3 800 MHz，Max. 4GB		2x DDR3 1066 MHz Max. 4GB	2x DDR3 1066/1333 MHz, Max. 16GB
Internal Storage		1x 2.5" SATA 3G HDD or SSD / SD card			
Panel		15.6" LED, 1366 x 768	15.6" LED, 1366 x 768 Single touch		18.5" LED, 1366 x 768 X70S, Single touch / X70M, Multi touch / X70N, without touch
Audio		HD 2 channel, 2x 2W internal Stereo Speak			
Webcam		Yes			
Microphone		Yes			
Network		10/100/1000 Mbps (1x RJ45) 802.11 b/g/n WIFI			10/100/1000 Mbps (2x RJ45) 802.11 b/g/n WIFI
I/O	Video	(1) D-Sub	(1) D-Sub	(1) HDMI, (1) D-Sub	(1) HDMI
	Audio / MIC	(1) 3.5mm Lin out, (1) 3.5mm MIC in			
	USB 3.0 / USB 2.0	(4) USB2.0			(2) USB3.0, (6) USB2.0
	RS232	Optional			(1) RS232
Other		Power On After Power Failure / Resume From RTC / Resume From S3/S4 / Wake On LAN Support 1x holes for Kensington Lock / Support VESA mount / Support WatchDOG			
Power Supply (Adapter)		100~240V AC (40W / DC19V, 2.1A)			100~240V AC (120W / DC19V, 6.32A)
Operating system		Windows XP, Windows 7, Linux		Windows 7 32bit	Windows XP, Windows 7 Windows 8, Linux
Certificate		CB, CE, BSMI, ETL, CCC, FCC, C-Tick, RoHS			
Dimension (L/W/H) mm		391.3 x 327 x 42			468 x 364 x 57
Weight	NW (kg)	2.92			4.6
	GW (kg)	4.2			6.5
Color		Black / White			Silver
Accessories (Optional)		PCL68 (RS232 / LPT port accessory)		PCL69 (RS232 / LPT port accessory)	PCL70 (RS232 / LPT port accessory)

SZ87R6

XPC series **Front Panel**

F1. 5.25" Bay
F2. 3.5" Bay
F3. Eject Button
F4. Open Door
F5. Power Switch & Power LED
F6. HDD LED
F7. USB3.0 Ports
F8. USB2.0 Port
F9. Mic In
F10. Headphone
F11. USB2.0 Port & Fast Charger

XPC series **Back Panel**

B1. AC Power Socket
B2. Serial Port (Optional)
B3. S/PDIF Out Port
B4. DVI-I Port
B5. HDMI Port
B6. eSATA & USB2.0 Port
B7. USB3.0 Ports
B8. Clear CMOS Button
B9. Front Speaker Out (L/R) Port
B10. Side Speaker Out (L/R) Port
B11. Real Speaker Out (L/R) Port
B12. Center/Subwoofer Speaker Out Port
B13. Line-In Port
B14. LAN & USB2.0 Port
B15. Wireless LAN Perforation (Optional)

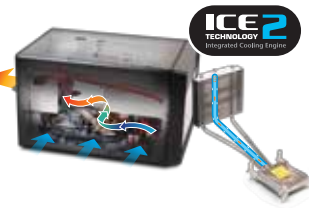## Reliable and Powerful Mini-PC - The XPC series

Shuttle's industry renowned XPC series is only 1/3 size of a traditional tower PC yet delivers the same performance as regular computers with high durability. The XPC series is equipped with Shuttle's I.C.E.2™ heat pipe technology to efficiently distribute heat to the outside of the machine. The XPC series supports the latest generation of Intel® processors and provides a variety of I/O interfaces for strong expandability. The XPC series features impressive performance to support diverse commercial applications, including video walls and mini servers.

Integrated Cooling Engine 2 (I.C.E. 2) Heat Pipe Technology

Shuttle's Integrated Cooling Engine 2 (I.C.E. 2) uses convection cooling to dissipate heat away from and around the CPU. The copper tubes, coated in nickel for enhanced tube hardness and rust-proof protection, are filled with distilled water to effectively channel heat.

80 Plus Certified Power Supply - Energy Saving

The XPC series are equipped with an 80 Plus power supply that features high energy efficiency and energy saving. Shuttle's 500W power supply is perfectly to be used to eliminate the unnecessary power consumption to achieve the higher level of certificate standard requesting energy saving.

Dual-slot Graphics Card Support and Strong Expandability

The XPC series is equipped with one PCI-e x16 slot (support Dual slot VGA card) that provides excellent support for digital signage with video walls. With built-in USB ports (up to 10) and optional expansion cards with RS232 interface, the series easily connects to diverse peripherals to meet multiple applications.

* The largest volume of graphics cards supported is 273x98x42 (LxHxD)
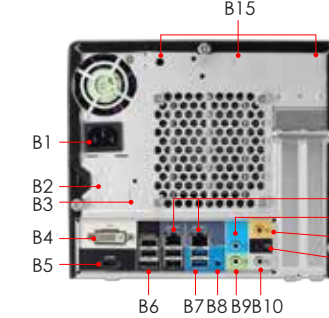
Application Fields

Video Wall   Mini Server   Surveillance   Office   Digital Home

Specification

	SH81J4	SH81R4	SH87R6	SZ87R6	SX79R5
Supported Processor	Intel® 4th Generation LGA1150 Socket Intel® Core i3/i5/i7 Max TDP 95W CPU				Intel® 2nd Generation LGA2011 Socket Intel® Core i7 / i7 Extreme Edition processor
Chipset	Intel® H81 Express		Intel® H87 Express	Intel® Z87 Express	Intel® X79 Express
Graphics	Integrated in CPU / Add on VGA Card				Add on VGA Card
Memory	2x DDR3 1333/1600 MHz, Max. 16GB		4x DDR3 1333/1600 MHz, Max. 32GB		
Storage Interface	SATA 3G / 6G		SATA 6G		SATA 3G / 6G
Storage Bays	2x 3.5" HDD or 2.5" HDD / SSD				
Expansion Slots	1x PCI-Ex1, 1x PCI-Ex16, 1x Mini PCI-E (full size, support mSATA) 1x Mini PCI-E (half size)				2x PCI-Ex16 1x Mini PCI-E (full size, support mSATA) 1x Mini PCI-E (half size)
Audio	HD 5.1 channel		HD 7.1 channel		
Network	10/100/1000 Mbps Ethernet (1x RJ45)			10/100/1000 Mbps Ethernet (2x RJ45)	
I/O — Video	(1) DVI-I, (1) HDMI				N/A
I/O — Headphone / MIC	(1) 3.5mm Lin out, (1) 3.5mm MIC in				
I/O — S/PDIF Out	N/A				1
I/O — USB 3.0 / USB 2.0	2 / 8		4 / 6		4 / 8
I/O — eSATA	N/A		1		
Other	Wake On LAN / Support 1x holes for Kensington Lock / Support Watch DOG				
Power Supply	300W 80 Plus			500W 80 Plus	
Operating system	Windows 7, Windows 8, Linux				Windows XP, Windows 7 Windows 8, Linux
Certificate	CB, CE, BSMI, ETL, CCC, FCC, C-Tick, RoHS				
Dimension (L/W/H) mm	325 x 215 x 190		332 x 216 x 198		
Weight — NW (kg)	3.2		3.5		
Weight — GW (kg)	5		5		
Material	Metal		Aluminum		
Accessories (Optional)	WLN-C (WLAN kit) PHD3 (Accessory for Cube XPC 3.5" to 2.5 HDD rack) J-RS232 (RS232 daughter board for Cube XPC)				

HR70

All-in-One Face Recognition Solution - The HR70 series

Shuttle's HR70 series face recognition system is an All-in-One model with two built-in full HD cameras. The face recognition angle is dual-axis ± 15 degrees to provide non-invasive, non-contact face recognition. The HR70 series is equipped with Intel® high-performance dual-core processor to enhance recognition speed and provide highly accurate recognition capability. The HR70 series features built-in RS232, RS485, and GPIO controllers to support various peripherals and to provide versatile application capabilities. The HR70 series is the best solution for attendance systems and entrance access control for small & medium business, government, banks, education, research institutions, and community applications.

Rapid and Accurate Identification Capability

Shuttle's HR70 series is equipped with an Intel® high-performance dual-core processor to effectively enhance its database search and facial recognition capabilities. The system's False Acceptance Rate (FAR) is less than 0.01%, and its False Rejection Rate (FRR) is less than 1.9%. The HR70 series features two LED lights to provide fast and highly accurate identification ability that can be used in low-light environments.

Flexible Multifunction Configuration

Shuttle's HR70 series has two built-in Full HD cameras. It can detect persons within a 140cm-200cm height range from a distance of up to 60cm from the device. Its face recognition angle is dual-axis ± 15 degrees (shot from the side or from above/below). The series has two verification combination choices: 1) ID+ face or 2) face, fingerprint, and RFID all in one.

200cm
60cm
140cm

Multiple Interfaces

Shuttle's HR70 series is fit for diverse applications with built-in RS232, RS485, and GPIO controllers that support a variety of related peripherals. Among these controllers, GPIO can be used in access control solutions that allow users to strictly control the access security. This interface can further be integrated with VIP membership control mechanisms to provide optional services.

Application Fields
· Visitor registration
· Employee attendance management
· Access Control
· Airport Immigration system
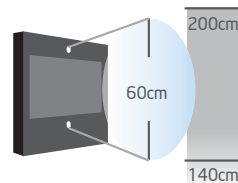
Software Spec

Items		HR70	HR70S
Operating System		Ubuntu Linux 12.04	
Face Recognition	detection height range	Up to down 60cm, based on distance 60cm	
	Recognition speed	2-3 seconds	
	Recognize rate	FAR default 0.01% / FRR 1.9 % (under FAR 0.01%)	
	Face Angle	Two axis ±15degree	
	Life face detection	Eyes motion detection	
	Standards	ISO/IEC19794-5:2005	
Fingerprint recognition		Fingerprint verification and identification	N/A
RFID reader support		Support Mifare contactless card	N/A
Multi-Recognition		Face+Fingerprint+RFID(ID) RFID(ID)+Face+Fingerprint Fingerprint+Face+ RFID(ID)	ID+Face
Access control		Dry contact output. Normal open	
Webcam		Build in two Full-HD cameras. Cameras recognize at the same time.	
Management		System information / System setting / User management / Log Update / Export / Import / Device Test / Event Trigger / Green Power	

Hardware Spec

		HR70	HR70S
Integrated Processor		Intel® Celeron™ 1037U processor / Max. TDP: 17W	
Chipset		Intel® NM70	
Video Engine Processor		Intel® HD Graphics integrated	
Memory		2GB DDR3 RAM	
Internal Storage		32GB mSATA SSD	
Panel		7", 16:9, LED, 1024 x 600 /Single Touch	
Audio		1x 2W internal mono Speaker / 1 x internal Electret Condenser Microphone	
Webcam		2 x Full HD camera	
Network		10/100/1000 Mbps Ethernet (1x RJ45) / 802.11 b/g/n WIFI controller (Optional)	
I/O	Video Out	(1) HDMI	
	Audio / MIC	(1) 3.5mm Lin out, (1) 3.5mm MIC in	
	USB 3.0 / USB 2.0	(1) USB3.0, (1) USB2.0	
	RS232	(1) RS232, (1) RS485	
	GPIO	(2) Form A contact Relay output(Max. 2A@120VAC/24VDC) / (2) Digital In dry contact	
	Optional	RFID Card reader / Fingerprint reader	N/A
Other		200 Lux LED Light / Power On After Power Failure / Wake On LAN / Support VESA mount	
		Contactless Card reader support ISO14443A/B Fingerprint reader support ISO19794-2	N/A
Power Supply		100~240V AC (with 65W external adapter)	
Certificate		CE, BSMI, ETL, FCC	
Dimension (L/W/H) mm		230 x 255 x 49	230 x 195 x 31
Weight	NW (kg)	1.01	0.81
	GW (kg)	1.83	1.63
Material		Plastic	

KS10

KD22

OMNINAS
Your Own Private Cloud

Available on the iPhone **App Store** ANDROID APP ON **Google play**

Store and Share the Great Moments in Life with OMNINAS
Shuttle's NAS product line called "OMNINAS" consists of network attached-storage devices that feature powerful data storage, backup, security, and multiple servers. OMNINAS is designed to become one's hub of multimedia content to make sure users always have access to their files via Android or iOS mobile devices.

Convenient Hot Swap Function
The OMNINAS has a unique HDD tray design that simplifies HDD installation and also supports the One-button Hot-Swap function.
☑ **RAID 1**
In RAID 1 mode, users can easily replace backup HDDs with a simple click of a button while the system is still running. This feature also provides HDD data safety backup protection.

Hotspot Function
The OMNINAS has a built-in Wireless AP* that supports the Hotspot function. This allows the OMNINAS to extend its application environment to the wireless network and all Wi-Fi compatible devices at home or in the office, making and makes digital content accessible worldwide. Users can search and access the NAS database directly and experience its convenience wirelessly.
*Wireless AP depending on model.

Superb Transfer Performance
The OMNINAS offers superb transfer performance with speeds of up to 110MB/s*. It allows multiple users to access the data simultaneously and is designed specifically for small offices, workgroups or home use.
*Transfer performance depending on model and system environment.

110 MB/s

1. Acronis True Image backup software
The OMNINAS models come bundled with a copy of *Acronis True Image Personal Edition software. This utility provides powerful data backup capabilities that support full backups or selected backups of key files, enhanced flexibility and convenience of data backups.
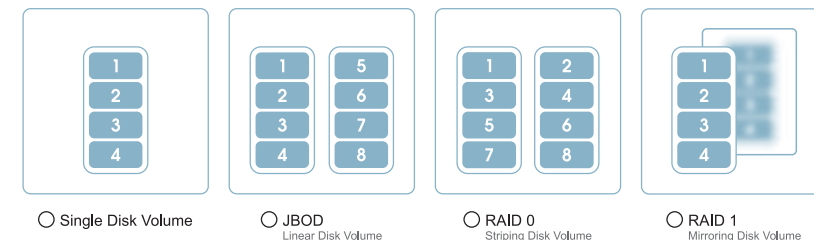*Acronis backup software will vary depending on the model.

Acronis

2. USB 3.0 & SD Card Reader
The OMNINAS comes with USB 3.0 high-speed ports that boast transfer rates of up to 5.0Gbps (640Mbyte/sec) – around 10 times faster than USB 2.0. The built-in SD card reader with "Auto Copy" function stores digital content to the NAS quickly and conveniently.

3.0

3. Supports RAID 0/1/JBOD modes
The OMNINAS supports RAID 0, RAID 1 and JBOD mode. Users are free to choose which mode is right for them - highest read/write performance (RAID 0), best data protection (RAID 1) or largest useful capacity (JBOD).

○ Single Disk Volume	○ JBOD Linear Disk Volume	○ RAID 0 Striping Disk Volume	○ RAID 1 Mirroring Disk Volume

4. Energy-saving and Green Power design
The OMNINAS design conforms to international IEEE802.3az Energy-Efficient Ethernet standard and the minimum power consumption of only 9W. The eco-friendly Green Power design of the OMNINAS saves energy and costs at the same time.
* Minimum power consumption depending on model.

Save Power

5. Powerful & Multiple server functions
☑ **Print Server**
The OMNINAS works as a print server. Simply connect a printer to the NAS to share copies over the network.
☑ **iTunes Server**
Creating an iTunes server based on an OMNINAS is easy and allows users to play back media content and stream it directly to devices with iTunes clients over a network.
☑ **DLNA Media Server - Twonky**
The integrated Twonky DLNA Media Server software automatically sorts media stored on the NAS so that users no longer need to spend time organizing files. High compatibility with other DLNA devices and support for a wide range of multimedia formats enables the OMNINAS to easily play more multimedia content.

TWONKYSERVER™

6. Excellent cooling design
The OMNINAS uses 2.5mm thick stylish aluminum for its casing which not only blends in with home design but also serves as a smart low-noise cooling system. The fan speed adjusts automatically in order to ensure reliable and quiet operation.

2.5mm

Hardware Spec

	KD22	KD20	KS10
CPU	Marvell 88F6707 1.2GHz SOC	PLX 7821/750Mhz dual-core	Marvell 88F6707 800MHz SOC
HDD	2 x 3.5" HDD or 2x 2.5" HDD/SSD	2 x 3.5" HDD or 2x 2.5" HDD/SSD	1 x 3.5" HDD
Lockable HDD Tray	Yes	Yes	No screw required
OS	Embedded Linux	Embedded Linux	Embedded Linux
Largest single HDD capacity supported	> 4TB	> 4TB	> 4TB
DRAM	512MB DDR3	256MB DDR2	256MB DDR3
NAND	1Gb	1Gb	1Gb
USB 2.0	1 (flash drive, external HDD, hub, printer, digital camera, etc.)	2 (flash drive, external HDD, hub, printer, digital camera, etc.)	2 (1 at front panel) (flash drive, external HDD, hub, printer, digital camera, etc.)
USB 3.0	2 (front panel) (flash drive, external HDD, hub, printer, digital camera, etc.)	1 (front panel) (flash drive, external HDD, hub, printer, digital camera, etc.)	N/A
Card Reader	1 (front panel) SD Card	1 (front panel) SD Card	1 (front panel) SD Card
10/100/1000 Ethernet	1 (100 green, 1000 amber; access/link blinking green)	1 (100 green, 1000 amber; access/link blinking green)	1 (100 green, 1000 amber; access/link blinking green)
	IEEE 802.3az for Green Lan	N/A	IEEE 802.3az for Green Lan
Wireless Support	2.4 GHz operation frequency	N/A	2.4 GHz operation frequency
	AP mode, IEEE 802.11 b/g/n	N/A	AP mode, IEEE 802.11 b/g/n
RAID	0, 1, JBOD	0, 1, JBOD	Single
Support single HDD	Yes and single expansion	Yes	Yes
Hot Swap	Yes	Yes	N/A
Hot Swap button (zero configuration)	1 for each HDD	1 for each HDD	N/A
RTC	Yes	Yes	Yes
Power Adaptor	65W	65W	40W
Alarm Buzzer	System Warning	System Warning	System Warning
Fan	Smart fan	Smart fan	Fanless
Reset Button	Back panel	Back panel	Back panel
Power Button	Front panel	Front panel	Back panel
Secure lock	Kensington lock	Kensington lock	Kensington lock
Operation Temperature	0 - 40 °C	0 - 40 °C	0 - 40 °C
Operation Humidity	10-95%	10-95%	10-95%
Certification	CE, FCC, C-TICK, BSMI, CB, EUP Lot6, R&TTE	CE, FCC, C-TICK, BSMI, CB, EUP Lot6	CE, FCC, C-TICK, BSMI, CB, EUP Lot6, R&TTE
Chassis	Aluminum/Plastic	Aluminum/Plastic	Plastic
Size	169.8mm (H) x 90.0mm (W) x 225.0mm(L)	169.8mm (H) x 90.0mm (W) x 225.0mm(L)	124mm (H) x 60mm (W) x 205mm (L)
Weight	2716 g	2716 g	550g
Accessories	Power Adaptor (65W), AC Power Cord, Ethernet Cable, CD, QSG, HDD Screws	Power Adaptor (65W), AC Power Cord, Ethernet Cable, CD, QSG, HDD Screws	Power Adaptor (40W), AC Power Cord, Ethernet Cable, CD, QSG

*Performance depends on the testing environment

Software Spec

	KD22	KD20	KS10
OS	Embedded Linux		
Supported OS	Microsoft Windows XP and above, Mac OS and Linux		
Mobile Device Access	iPhone, iPAD, Android phone, Android tablet		
Supported Mobile OS	iOS 6.0 and above, Android 2.3 and above		
Mobile Device Application	App Store for iPhone & iPAD, Google Play for Android phone & tablet		
Supported Browser	IE 8.0 or later, Firefox 3 or later, Safari 3 or 4 and Google Chrome		
Languages	12 (English, 繁體中文, 简体中文, 日本語, Deutsch, Français, Русский, Nederlands, Español, Italiano, Dansk,Türkçe)		
File System	Internal : XFS		
	External: EXT2, EXT3, XFS, NTFS, FAT, FAT32	External: XFS, NTFS, FAT, FAT32	External: EXT2, EXT3, XFS, NTFS, FAT, FAT32
Accessing Right Management	Users Management (Max. users: 256)	Users Management (Max. users: 50)	Users Management (Max. users: 256)
	Folder Management (Max. shared folders: 256)	Folder Management (Max. shared folders: 20)	Folder Management (Max. shared folders: 256)
	Public/Private folders configuration		
LAN Configuration	DHCP/Static IP		
	Hostname/Group name		
Networking Services	Samba Server (File sharing)		
	DHCP client		
	USB Storage devices sharing		
	Printer Server		
	iTunes Server		
	Twonky DLNA Media Server		
	Apple File Protocol (AFP)	-	Apple File Protocol (AFP)
	NTP for time synchronization		
	FTP / SSL FTP Server	-	FTP / SSL FTP Server
Backup	Quick Copy for USB Storage devices (USB Storages to NAS)		
	Acronis Backup Software		-
	Time Machine support		
	NAS to USB Storage backup		
	NAS to NAS backup		
	Memory card to NAS		
Scheduling	Schedule backup		
	Schedule for NTP time synchronization		
Remote Access	Remote Access by Internet Browser		
	Remote Access by Smartphone		
	Wake on Lan	-	Wake on Lan
Disk Management	HDD Spin-down timer		
	Single disk, Single disk expansion, RAID 0/1, JBOD	Single disk, RAID 0/1, JBOD	Single disk
	Check Disk		
	Disk usage status management		
	Disk Format		
	SMART information report		
Download	BT Download without PC (schedule download, tasks download, download configuration, etc.)		
System Setup/Tools	On line Firmware upgrade	Firmware upgrade	On line Firmware upgrade
	Time-Zone Settings		
	Wizard and installer for easy setup		
	NAS Discovery tool (Finder to search/connect/map drives)		
	Factory Reset		
	System log		
	Schedule on/off	-	Schedule on/off
Others	Power Interrupt auot resume	-	Power Interrupt auot resume
	One touch on power button to turn on/off LED	-	One touch on power button to turn on/off LED

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Shuttle's mini PC, Slim PC, and All-in-One hardware solutions are designed for diverse commercial application, including Digital Signage, Kiosk, Menu Board, Video Wall, and POS. Whether your business is in retail, hospitality, banking, corporate office, transportation, healthcare, security, or education, Shuttle has the right solution to help your business succeed.

Home Medicare

AIO applied in nursing homes to support communications systems and increase patient health and safety.

Point-Of-Sale

A cost effective POS system designed to handle the various daily operations throughout hospitality and retail markets.

Digital Signage

Retail:

Display rich interactive media content to engage customers and drive sales. Decrease perceived wait time and improve customer experience.

Hotel:

Manage and communicate information about customer service, hotel events, and room rates from a central location

Bank:

Provide instant financial information relating to the stock market, global exchange rates, and internal bank programs.

Public Transportation:

Display important flight information, power multi-touch way finding kiosks, or generate revenue from ad space.

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