

DS437

Fanless & Rugged for Harsh Environments



FANLESS SLIM PC

with Celeron Processor for Numerous Applications

Shuttle's DS437 is an ultra-slim, energy-efficient, and full HD digital signage media player with built-in RS232/RS422/RS485, USB 2.0 & 3.0 and dual Gigabit-LAN and comes with many more I/O interfaces for greater connectivity. The DS437 is equipped with Intel® high-performance Celeron 1037U dual-core processor and provides both HDMI, DVI-I output interfaces for dual display function; the exclusive integration of low-power design and fanless cooling with body thickness of less than 40mm. The DS437 only uses 65W external power supply to keep the system running smoothly and nearly a 40% noise reduction compared with the traditional PC. With the DS437, customers can benefit from lower energy consumption and an unbelievably quiet system for their digital signage solution.

PRODUCT SPECIFICATIONS

Slim Design	<ul style="list-style-type: none"> • Slim 1.3 Liter Metal Chassis, Black • Dimensions: 8 x 6.5 x 1.5 Inches (LWH) • Including VESA Mount (75/100 mm)
Operating System	<ul style="list-style-type: none"> • The Operating System Is Not Included • Compatible w. Windows XP / 7 / 8.1, Linux
Processor	<ul style="list-style-type: none"> • Intel Celeron 1037U, Dual Core, 1.8 GHz • Integrated Intel HD Graphic • Fanless Heat-Pipe Cooling
Memory	<ul style="list-style-type: none"> • Up To Max. 16GB RAM (2 x S0-DIMM)
Storage Bays	<ul style="list-style-type: none"> • Bay: 6.35cm/2.5" For Hard Disk or SSD • Slot: Full-Size Mini-PCIe Slot Supports mSATA
Connectors	<ul style="list-style-type: none"> • HDMI, DVI-I Video Outputs • 2x USB 3.0 Rear, 4x USB 2.0 Front • SD Card Reader , 2x Audio (Line Out + Mic) • Dual Gigabit LAN (RJ45), Supports WOL, PXE • 2x COM Ports (RS232 + RS232/RS422/RS485) • 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"> • Digital Signage, POS, Control Device, etc. • Approved for 24/7 Non-Stop Operation



>> 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. Using an SSD drive instead of a hard disk makes the system virtually noiseless and hence perfectly suitable for noise-sensitive environments like e.g. bedroom, library, living room, music studio etc.



WLAN

mSATA

>> EXPANSION SLOTS FOR MINI-PCI-EXPRESS CARDS

DS437 features two Mini PCI Express expansion slots which can easily be accessed by removing the appropriate bay cover. One slot supports half size cards and is already occupied with a WLAN card. The other slot also supports full size cards and can be used either for a Mini PCIe card or for a mSATA (Mini Serial ATA) card, which is a Solid State Drive (SSD) in a compact Mini PCIe card form factor.

>> GREAT CONNECTIVITY

Despite its small size, DS437 sports a wide range of I/O connectors. Besides an SD card reader, it sports a couple of USB 3.0, USB 2.0, Gigabit-LAN, digital video, audio and serial ports.



> DUAL GIGABIT LAN NETWORK

Today's media-rich communications across the internet and within enterprises create new demands for clients in Local Area Networks. For that reason, Shuttle applies Gigabit LAN performance to their Mini-PCs and DS437 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.



RS-232
RS-422
RS-485

RS-232

> 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. DS437 features two serial RS-232 ports which also support both 5 and 12V auxiliary voltage. The left COM port (COM1) also supports the RS422 and RS485 standard.

COM PORT PIN 9 CONFIGURATION

Pin 9 of the COM-Port is a multi-functional signal (see red circle on the photo above). 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).



>> DUAL VIEW TECHNOLOGY WITH HDMI & DVI

DS437 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.