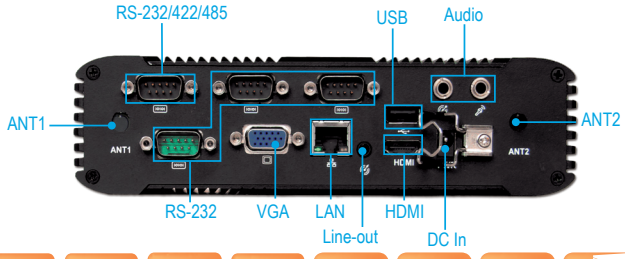
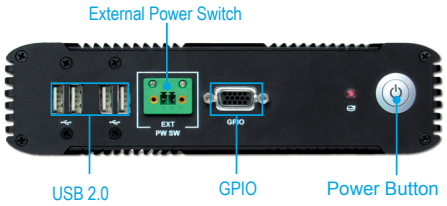
WEBS-1371

Embedded Rugged Fan-less System with Intel® Atom™ D2550 based 3.5" ECX Board



Intel® N455/D2550 | Dual Core | Rugged | Fanless | WiFi | COM | GbE | USB 2.0 | 2.5"HDD | Mini-PCIe



The WEBS-1371 adopts Atom™ D2550 CPU with NM10 chipset and takes its advantages to develop Portwell Design of that the CPU/chipset on the backside of the board is good for system thermal design. The perfect thermal solution can easily solve the thermal of CPU. The external power switch is an another plus factor. The WEBS-1371 is a great platform for kiosk, digital signage, and automation applications.

FEATURES

- Rugged and compact fan-less design for harsh environment
- Fan-less solution with Dual-Core CPU
- Intel® Atom™ D2550 1.86GHz processor based on Intel® NM10 platform
- 1x Full-size Mini-PCIe socket
- Rich I/O is good for versatile applications
- 4x COM port with different power voltage selection
- 2x Antenna hole for WiFi or 3G/GPS module to use
- OP Vibration: 5Grms/10~500Hz
- OP Shock: 50G, 11msec
- IP40 Rating

ORDERING GUIDE

AS5-3352	(R).ATO.WEBS-1371.A.3.5" ECX System.

System

M/B	PEB-2772
System Chipset	Intel® Cedarview NM10 Express chipset
CPU	Intel® Atom™ D2550, 1M L2 Cache, 1.86GHz, 10W TDP (2C/4T)
BIOS	Phoenix uEFI BIOS (SPI ROM)
System Memory	One 204-pin SO-DIMM socket supports DDR3 800/1066 up to 4GB
Storage	1x 2.5" SATA HDD/SSD, 1x SATA DOM
Watchdog Timer	Programmable via S/W from 1 sec. to 255 sec.
H/W Status Monitor	- Temperature (CPU & System) - Voltage (CPU Vcore, VBAT, 5VSB, 12V, 5V, 3.3V)
Expansion	1x Full-size Mini-PCIe socket

External I/O

Serial Port	4x COM Port (3x powered RS-232 + 1x powered RS-232/422/485) (RI/5V/12V is selectable by jumper setting)
Display	1x VGA, 1x HDMI
USB	4x USB2.0 (front) + 1x USB2.0 (rear)
Audio interface	Line-in/Line-out/Mic-in (ALC886)
Ethernet	1x Gigabit Ethernet (Intel® 82583V)
GPIO	1x Programmable 8-bit Digital I/O
Other	- 2x Antenna hole for WiFi or 3G/GPS module - 1x EXT Power Switch

Power Supply Unit

Power Input	DC 12V

Environmental

Operation Temperature	-10°C ~ 50°C
Storage Temperature	-20°C ~ 80°C
Relative Humidity	95%@40°C, non-condensing
Operation Vibration	5Grms/10-500Hz, IEC 60068-2-6
Operation Shock	50G, 11 msec, IEC 60068-2-27

Mechanical

Dimension	200(W) × 150(D) × 51(H) mm ; 7.9"(W) × 5.9"(D) × 2"(H)
Weight	1.6 kg
Mounting	Desk, Wall/Panel mounting