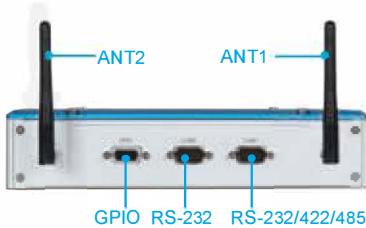
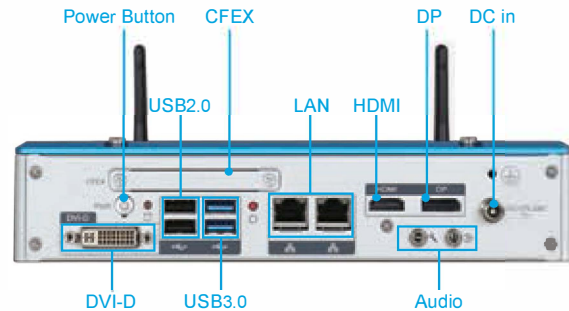


WEBS-5481-S

Embedded rugged fan-less system with Intel® Celeron and Core™ i3/i5/i7 based specific form factor board



The WEBS-5481-S, a downward/slim version of WEBS-5400 series design concept, builds on Intel® Haswell ULT Low Power SoC and takes advantages of Intel® Core™ mobile processor technologies that can support dual channel DDR3L memory. Support two Gigabit Ethernet ports and two Mini-PCIe sockets. The WEBS-5481-S is an ideal platform with HD graphic output for POS, kiosk, digital signage and transportation applications.

FEATURES

- 4th generation Intel® Celeron & Core™ i3/i5/i7 ULT SoC
- Intel® Haswell ULT SoC Low Power & High Performance Embedded Fan-less System
- Dual Channel SO-DIMM sockets up to 16 GB DDR3L Memory
- 1x 2.5" SATA HDD/SSD, 1x CFEF, 1x mSATA
- 2x Mini-PCIe socket can be used in a diversity of applications
- 1x RS-232/422/485, 1x RS-232, 2x USB3.0, 2x USB2.0, 2x Gigabit Ethernet Port
- Triple Display by VGA/HDMI/DP
- 2x Antenna hole + 1x onboard SIM card holder for WiFi or 3G/GPS module to use
- OP Vibration: 5Grms/5~500Hz
- OP Shock: 50G, 11msec
- IP40 Rating

ORDERING GUIDE

| | |
|----------|---|
| AS5-3407 | (R) ATO WEBS-5481-S.Mini-ITX Haswell ULT. Fanless System. |
|----------|---|



System

| | |
|--------------------|--|
| Board Dimension | PEB-5731-W Series |
| System Chipset | Intel® Haswell ULT SoC |
| CPU | - Intel® Core™ i7-4650U, 1.7GHz, 4M L2 Cache, up to 3.3 GHz, 15W TDP (2C/4T) - Intel® Core™ i5-4300U, 1.9GHz, 3M L2 Cache, up to 2.9 GHz, 15W TDP (2C/4T) - Intel® Core™ i3-4010U, 1.7GHz, 3M L2 Cache, 15W TDP (2C/4T) - Intel® Celeron® 2980U, 1.6GHz, 2M L2 Cache, 15W TDP (2C/2T) |
| BIOS | AMI uEFI BIOS (SPI ROM) |
| System Memory | Dual 204-pin SO-DIMM socket supports DDR3L 1333/1600 up to 16 GB |
| Storage | 1x 2.5" SATA HDD/SSD, 1x CFEF, 1x mSATA |
| 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 (USB+PCIe) + SIM Card holder - 1x Half-size Mini-PCIe socket (mSATA+PCIe) |

External I/O

| | |
|-------------|--|
| Serial Port | 2x COM port (1x RS-232/422/485 by BIOS, 1x RS-232) |
| Display | 1x DVI-D, 1x HDMI, 1x DP |
| USB | 2x USB3.0, 2x USB2.0 |
| Audio | Line-out/Mic-in (ALC892) |
| Ethernet | 2x Gigabit Ethernet (Intel® WGI218LM + WGI210AT) |
| GPIO | 1x Programmable 8-bit Digital I/O |
| Other | 2x Antenna hole for WiFi or 3G/GPS module |

Power Supply Unit

| | |
|-------------|------------|
| Power Input | DC 12V~24V |
|-------------|------------|

Environmental

| | |
|-----------------------|-------------------------------|
| Operation Temperature | -20°C to 55°C |
| Storage Temperature | -40°C to 80°C |
| Relative Humidity | 95%@40°C, non-condensing |
| Operation Vibration | 5Grms/5-500Hz, IEC 60068-2-64 |
| Operation Shock | 50G, 11 msec, IEC 60068-2-27 |

Mechanical

| | |
|-----------|---|
| Dimension | 235(W) x 160(D) x 50(H) mm; 9.2"(W) x 6.2"(D) x 2.0"(H) |
| Weight | 1.8 kg |
| Mounting | Wall mounting |

