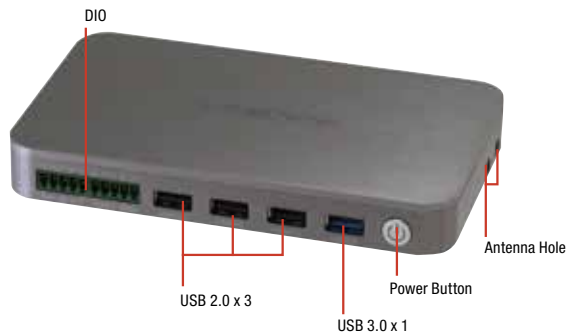


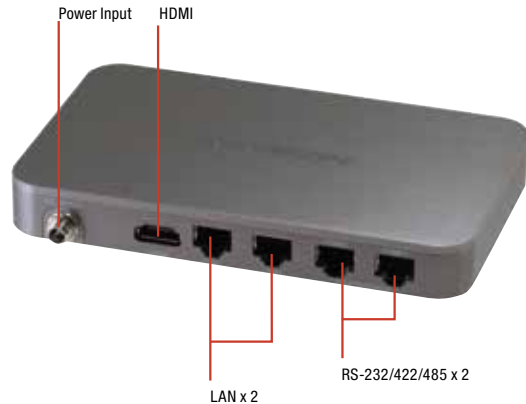
BOXER-6403

Compact Embedded Controller with Intel® Celeron®/ Atom™ Processor SoC

Front View



Rear View



Features

- Slim, Palm-sized, Fanless Box: 20mm
- 4 Digital Input & 2 Digital Output Support Dry Contact & Wet Contact
- HDMI Output
- Seamless Communication for WiFi, 3G, 4G, GPS, Bluetooth, and ZigBee
- Aluminum Die Casting Enclosure
- Low-Power-Consumption CPU



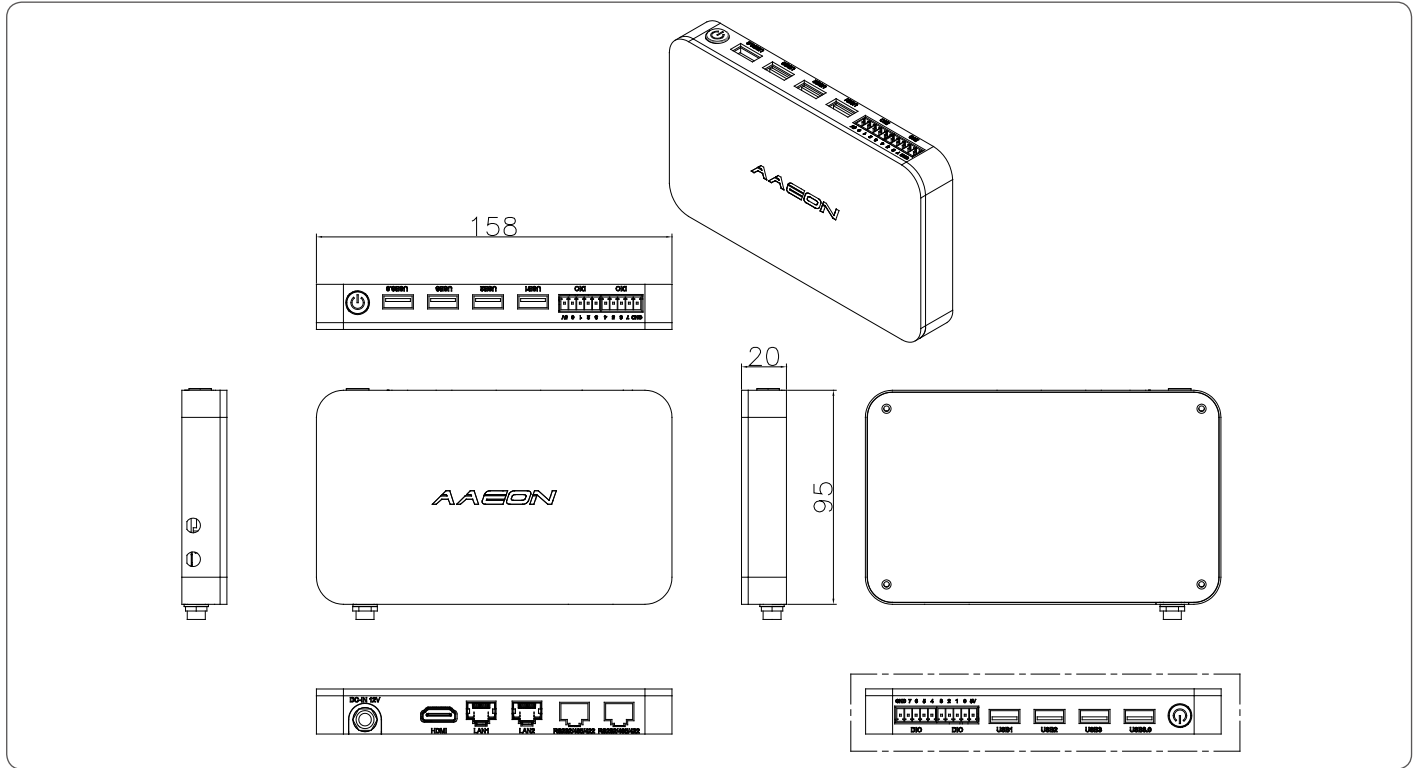
Specifications

| | | |
|-----------------------|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| CPU | Intel® Celeron®/ Atom™ Processor SoC | |
| Chipset | — | |
| System Memory | DDR3L 1333 SODIMM X 1, Max. 8 GB | |
| Display Interface | VGA | — |
| | DVI | — |
| | HDMI | HDMI x 1 |
| | Others | 18/24-bit single channel Onboard LVDS x 1 (internal) |
| Storage Device | CF-SATA | — |
| | HDD/SSD | — |
| | Others | mSATA (half-size) Space |
| Network | LAN | Intel® Gigabit Ethernet |
| | Wireless | Optional |
| Front I/O | USB Port | USB3.0 x 1, USB2.0 x 3 |
| | LAN | — |
| | Serial Port | — |
| | DIO | DIO x 6 (DI x 4, DO x 2, w/o isolation) |
| | Audio | — |
| | KB/MS | — |
| | Others | Power Button x 1 |
| | — | — |
| Rear I/O | USB Port | — |
| | LAN | RJ-45 x 2 |
| | Serial Port | RJ-45 x 2 for RS-232/422/485 (BIOS selection) |
| | DIO | — |
| | Audio | — |
| | KB/MS | — |
| Others | Lockable DC jack x 1, HDMI x 1 | |
| Expansion | PCIe | — |
| | PCI | — |
| | Mini-Card | Half Mini-Card x 1 (mSATA only), Full Mini-Card x 1 w/ SIM slot (Mini-Card w/ SIM) |
| | Mini PCI | — |
| Others | One USB 2.0 pin header on board, LPC connector onboard, LVDS x 1 | |
| Indicator | Front | — |
| | Rear | — |
| Power Requirement | DC 12V input with lockable connector ATX mode (optional for AT by Jumper/BIOS setting) | |
| Power Consumption | — | |
| System Cooling | Passive | |
| Mounting | VESA / Din-rail (Wall / Din-rail kit) | |
| Operating Temperature | —4°F ~ 104°F (-20°C ~ 40°C) w/o Air (mSATA) | |
| | —4°F ~ 131°F (-20°C ~ 55°C) w/ Air (mSATA) | |
| Storage Temperature | —22°F ~ 176°F (-30°C ~ 80°C) | |
| | 5 ~ 95% @ 40C, non-condensing | |
| Anti-Vibration | 3 g rms/ 5 ~ 500Hz/ operation (mSATA) | |
| Anti-Shock | 20 G peak acceleration (11 msec. duration, mSATA) | |
| MTBF (Hours) | 94,101 | |
| Certification | EMC | CE /FCC Class A |
| | Safety | — |
| Dimension (W x H x D) | 6.22" x 3.74" x 0.79" (158 mm x 95 mm x 20 mm) | |
| Gross Weight | — | |
| Note | — | |

BOXER-6403

Dimension

Unit: mm



Ordering Information

| Part Number | CPU | RAM | LAN | USB3.0 | USB2.0 | RS-232/422/485 | Storage | Display | Expansion | Mounting | Power | Operation Temp. |
|---------------------|--------------|-----------|-----|--------|--------|----------------|---------------|---------|-----------------------|------------------|-----------|-----------------------------|
| BOXER-6403-A00-1010 | Intel® N2807 | Up to 4GB | 2 | 1 | 3 | 2 | mSATA bay x 1 | HDMI | WiFi b/g/n (optional) | Din Rail/VESA 75 | 12V DC in | 0°C ~ 50°C (with airflow) |
| BOXER-6403-A01-1010 | Intel® N2930 | Up to 8GB | 2 | 1 | 3 | 2 | mSATA bay x 1 | HDMI | WiFi b/g/n (optional) | Din Rail/VESA 75 | 12V DC in | 0°C ~ 50°C (with airflow) |
| BOXER-6403-A02-1010 | Intel® E3825 | Up to 4GB | 2 | 1 | 3 | 2 | mSATA bay x 1 | HDMI | WiFi b/g/n (optional) | Din Rail/VESA 75 | 12V DC in | 0°C ~ 50°C (with airflow) |
| BOXER-6403-A03-1010 | Intel® J1900 | Up to 8GB | 2 | 1 | 3 | 2 | mSATA bay x 1 | HDMI | WiFi b/g/n (optional) | Din Rail/VESA 75 | 12V DC in | 0°C ~ 50°C (with airflow) |

Packing List

- RJ-45 to COM Cable x 2
- Power Adapter
- Product CD
- BOXER-6403

Optional Accessories

- **1702031802**
Power Cord (US type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **9751640300**
4G Module & Antenna (for Europe)
- **9751640301**
4G Module & Antenna (for USA)
- **9751640303**
WiFi/BT Module & Antenna
- **1255300607**
Power Adapter
- **M046403000**
Anti-Heat Kit