

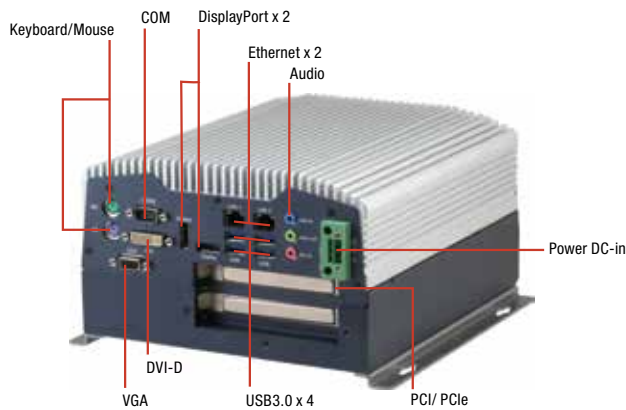
AEC-6877

Fanless Embedded Controller With Intel® Core™ i7/i5/Celeron® Processor And PCI/PCle Expansion

Front View



Rear View



Features

- Intel® Core™ Intel® i7-3610QE, i5-3610ME/ i7-2710QE, i5-2510E and Celeron® B810 Processor
- Intel® QM77 Chipset
- Three Independent Video Output for DisplayPort™ x 2 + VGA or DVI with 3rd Generation Core™ i Series
- USB 3.0 x 4
- PCI x 2 or PCI-Express[x4] x 1
- Power Protection
 - Over-Voltage Protection
 - Low Voltage Protection
 - Short Circuit Protection
 - Surge Protection (1000V DC)
- AAEON's Hi-Safe & Hi-Manager Support (i5/i7 CPU Only)



| | | |
|-----------------------|---|---|
| Indicator | Front | Power LED x 1, Hard Disk Drive active LED x 1 |
| | Rear | — |
| Power Requirement | DC 9 ~ 30V with 3-pin terminal block | |
| Power Consumption | Intel® Core™ i7-3610QE 2.3GHz 2A@30V | |
| System Cooling | Passive Cooling | |
| Mounting | Wallmount | |
| OS support | Window® XP Embedded, Window® XP, Window® 7, Linux Fedora | |
| Operating Temperature | 32°F ~ 122°F (0°C ~ 50°C) – without airflow | |
| Storage Temperature | -4°F ~ 158°F (-20°C ~ 70°C) | |
| Storage Humidity | 10%~95% @40°C, non-condensing | |
| Anti-Vibration | 5g rms / 5 ~ 500Hz / operation – CFast™ 1g rms / 5 ~ 500Hz / operation – HDD | |
| Anti-Shock | 20 G peak acceleration (11 msec. duration) – HDD | |
| MTBF | 50,000 | |
| Certification | EMC | CE/FCC class A |
| | Safety | — |
| Dimension (W x H x D) | 8.19"(W) x 4.02"(H) x 9.37"(D) (208mmx 102mm x 238mm) | |
| Gross Weight | 13.2 lb (6 Kg) | |

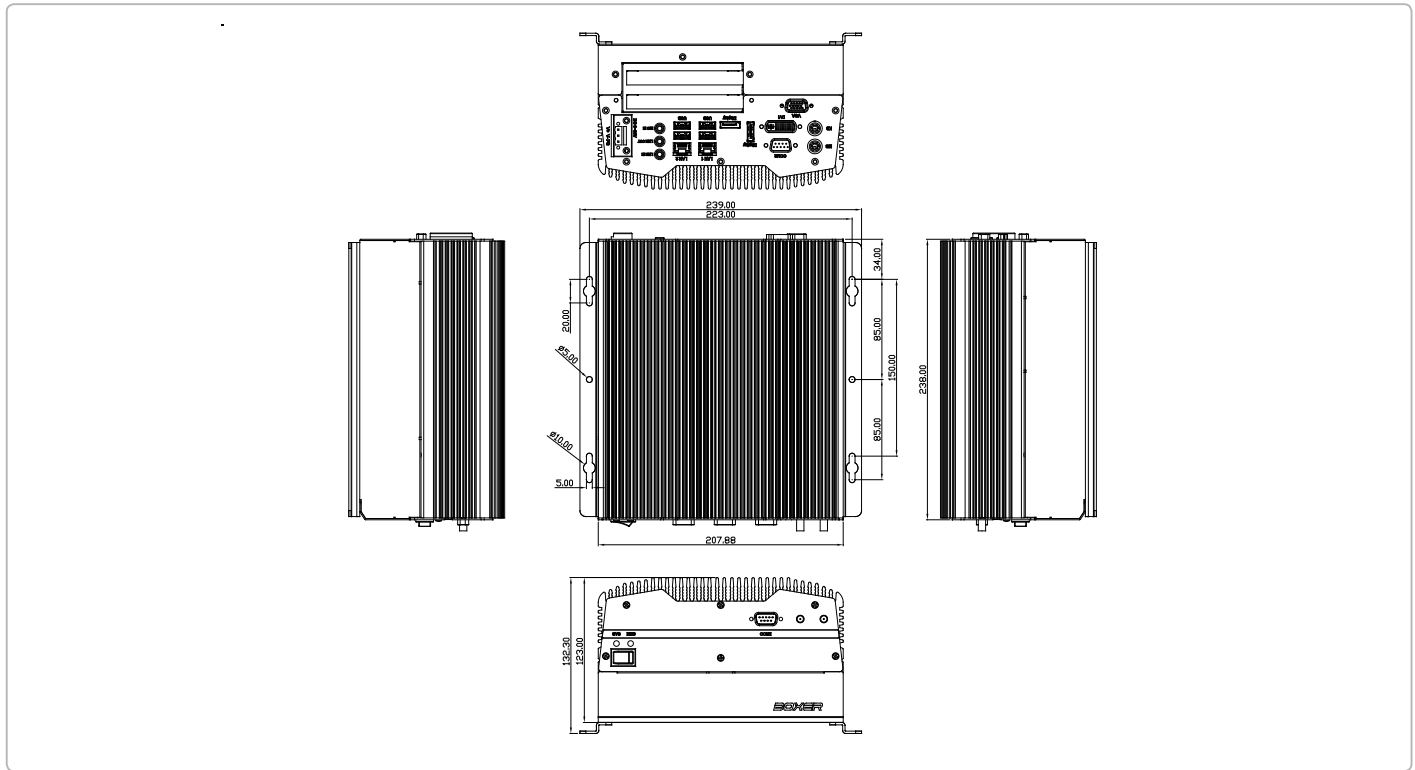
Specifications

| | |
|-------------------|--|
| CPU | Intel® Core™ i7-3610QE 2.3GHz, i5-3610ME 2.7GHz Intel® Core™ i7-2710QE 2.1GHz Intel® Core™ i5-2510E 2.5GHz Intel® Celeron® B810, 1.6 GHz with socket PGA988 |
| Chipset | Intel® QM77 |
| System Memory | 204-pin Dual-channel DDR3 1066/1333/1600MHz SODIMM x 2, Up to 16 GB |
| Display Interface | VGA DB-15 x 1 |
| | DVI DVI-D x 1, supports 1920x 1200 @ 60 Hz |
| | HDMI — |
| | Others DisplayPort™ x 2 |
| Storage Device | SSD CFast™ slot |
| | HDD SATA 6.0Gb/s x 2, Support RAID 0,1 |
| Network | LAN 10/100/1000Base-TX |
| | Wireless Optional by Mini Card |
| Front I/O | USB Host — |
| | LAN — |
| | Serial Port DB-9 x 1 for RS-232 |
| | DIO — |
| | Audio — |
| | KB/MS — |
| | Others Push Power button x 1, Standard Antenna hole x 2 |
| Rear I/O | USB Host USB 3.0 x 4 |
| | LAN RJ-45 x 2 |
| | Serial Port DB-9 x 1 for RS-232/422/485 |
| | DIO — |
| | Audio Mic-in, Line-in, Line-out |
| | KB/MS PS/2 KB x 1+ MS x 1 |
| | Others Power input x 1 |
| Expansion | PCIe [x4] — |
| | PCI — |
| | Mini Card — |
| | Mini PCI — |
| | Others AxM : PCI-E[x4] x 1, BxM: PCI x 2 |

AEC-6877

Dimension

Unit: mm



Ordering Information

| Part Number | CPU | RAM | LAN | USB 3.0 | RS-232 | RS-232/422/485 | DIO | Storage | Display | Expansion | Mounting | Power | Operation temp. |
|-------------------|-------------------------|-----|-----|---------|--------|----------------|-----|-----------------------|--------------------------|---------------------------|-----------|----------|----------------------|
| AEC-6877-A1M-1010 | Intel® Celeron® B810 | 2GB | 2 | 4 | 1 | 1 | — | CFast™ x 1 HDD x 1 | VGA x 1, DVI x 1, DP x 2 | Mini Card x 1 PCIe x 1 | Wallmount | DC 9-30V | 0°C ~ 50°C (w/o air) |
| AEC-6877-A2M-1010 | Intel® i7-2710QE 2.1GHz | 2GB | 2 | 4 | 1 | 1 | — | CFast™ x 1 HDD x 1 | VGA x 1, DVI x 1, DP x 2 | Mini Card x 1 PCIe x 1 | Wallmount | DC 9-30V | 0°C ~ 50°C (w/o air) |
| AEC-6877-A3M-1010 | Intel® i5-2510E 2.7GHz | 2GB | 2 | 4 | 1 | 1 | — | CFast™ x 1 HDD x 1 | VGA x 1, DVI x 1, DP x 2 | Mini Card x 1 PCIe x 1 | Wallmount | DC 9-30V | 0°C ~ 50°C (w/o air) |
| AEC-6877-A4M-1010 | Intel® i7-3610QE 2.3GHz | 2GB | 2 | 4 | 1 | 1 | — | CFast™ x 1 HDD x 1 | VGA x 1, DVI x 1, DP x 2 | Mini Card x 1 PCIe x 1 | Wallmount | DC 9-30V | 0°C ~ 50°C (w/o air) |
| AEC-6877-A5M-1010 | Intel® i5-3610ME 2.7GHz | 2GB | 2 | 4 | 1 | 1 | — | CFast™ x 1 HDD x 1 | VGA x 1, DVI x 1, DP x 2 | Mini Card x 1 PCIe x 1 | Wallmount | DC 9-30V | 0°C ~ 50°C (w/o air) |
| AEC-6877-B1M-1010 | Intel® Celeron® B810 | 2GB | 2 | 4 | 1 | 1 | — | CFast™ x 1 HDD x 1 | VGA x 1, DVI x 1, DP x 2 | Mini Card x 1 PCI x 2 | Wallmount | DC 9-30V | 0°C ~ 50°C (w/o air) |
| AEC-6877-B2M-1010 | Intel® i7-2710QE 2.1GHz | 2GB | 2 | 4 | 1 | 1 | — | CFast™ x 1 HDD x 1 | VGA x 1, DVI x 1, DP x 2 | Mini Card x 1 PCI x 2 | Wallmount | DC 9-30V | 0°C ~ 50°C (w/o air) |
| AEC-6877-B3M-1010 | Intel® i5-2510E 2.7GHz | 2GB | 2 | 4 | 1 | 1 | — | CFast™ x 1 HDD x 1 | VGA x 1, DVI x 1, DP x 2 | Mini Card x 1 PCI x 2 | Wallmount | DC 9-30V | 0°C ~ 50°C (w/o air) |
| AEC-6877-B4M-1010 | Intel® i7-3610QE 2.3GHz | 2GB | 2 | 4 | 1 | 1 | — | CFast™ x 1 HDD x 1 | VGA x 1, DVI x 1, DP x 2 | Mini Card x 1 PCI x 2 | Wallmount | DC 9-30V | 0°C ~ 50°C (w/o air) |
| AEC-6877-B5M-1010 | Intel® i7-3610ME 2.7GHz | 2GB | 2 | 4 | 1 | 1 | — | CFast™ x 1 HDD x 1 | VGA x 1, DVI x 1, DP x 2 | Mini Card x 1 PCI x 2 | Wallmount | DC 9-30V | 0°C ~ 50°C (w/o air) |

Packing List

- Phoenix Power Connector
- M3 x 4mm Screws
- 6# -32 x 10mm Screws
- Wallmount Brackets
- Product DVD
- AEC-6877

Optional Accessories

- **1757912001**
Power Adapter, 19V, 6.32A, 120W, FSP, FSP120-AAB (A651), for DC 9-30V
- **1702031802**
Power Cord (US Type) - for 1757306004
- **1702031830**
Power Cord (US Type) - for 1757908400
- **1702031831**
Power Cord (European Type)
- **1702031810**
Power Cord (Japanese Type)
- **9741687600**
Extend 2nd 2.5" SATA HDD Kit
- **9741687601**
Mini Blower Kit for AEC-6876-Bxx/AEC-6877-Axx/
AEC-6877-Bxx Factory Install
- **9741687700**
I/O Dust Cover Kit for AEC-6877