**Specifications**

- **CPU**
  - Intel® Atom™ E3845 on-board Soc (1.91GHz, quad-core, 2MB cache, TDP=10W)
  - Intel® Atom™ E3827 on-board Soc (1.75GHz, dual-core, 1MB cache, TDP=6W)
  - Intel® Atom™ E3820 on-board Soc (1.46GHz, dual-core, 1MB cache, TDP=7W)
  - Intel® Atom™ E3825 on-board Soc (1.1GHz, single-core, 1MB cache, TDP=2W)
  - Intel® Atom™ E3827 on-board Soc (1.3GHz, quad-core, 2MB cache, TDP=6W)
  - Intel® Atom™ E3815 on-board Soc (1.1GHz, dual-core, 1MB cache, TDP=2W)
  - Intel® Atom™ E3825 on-board Soc (1.1GHz, single-core, 1MB cache, TDP=2W)
  - Intel® Celeron® J1900 on-board Soc (2GHz, quad-core, 2MB cache, TDP=10W)
  - Intel® Celeron® N2930 on-board Soc (2GHz, dual-core, 2MB cache, TDP=7W)
  - Intel® Celeron® N2807 on-board Soc (1.83GHz, quad-core, 2MB cache, TDP=7W)
  - Intel® Celeron® N2807 on-board Soc (1.58GHz, dual-core, 2MB cache, TDP=4.3W)
- **BIOS**
  - AMI UEFI BIOS
- **Memory**
  - Two 204-pin 1066/1333MHz dual-channel unbuffered DDR3L SODIMM (32GB DDR3L memory)
  - Two 240-pin 64-bit FBD memory DDR3L SODIMM (16GB DDR3L memory)
- **Graphics Engine**
  - Intel® HD Graphics Gen 7 Engines with 4 execution units, supporting DX11.1, OpenCL 1.2 and OpenCL 1.1
- **Display Output**
  - VGA (up to 2560x1600) (160Hz)
  - LVDS1: 1800x2400 dual-channel LVDS by CH7511B DP to LVDS converter (up to 1920x1200) (60Hz)
  - LVDS2: 1800x2400 dual-channel LVDS by CH7511B DP to LVDS converter (up to 1920x1200) (60Hz)
- **Ethernet**
  - Dual LAN: Realtek RTL8111E PCIe controller
- **I/O Interfaces**
  - 1 x RS-232
  - 1 x RS-422/485
  - 1 x CFast slot
  - 2 x SATA with 5V output
  - 4 x USB 2.0 (2 on rear IO, 2 by pin header)
  - 2 x USB 3.0 (molex)
  - 1 x 2-pin header for KB/MS
  - 1 x Super IO
  - 1 x TPM
- **TPM**
  - 1 x TPM connector (2x10 pin)
- **Battery**
  - Li-Ion 252P 3800mAh
  - Li-Ion 452P 3800mAh
- **Charging**
  - 6.5hrs 13hrs
- **Battery charge time (Power on)**
  - 2.5hrs 5hrs
- **Maximum discharge voltage**
  - 5.6V 11.2V
- **Power Supply**
  - Input power range: 9V~27V DC
  - Output power range: 9V~27V DC
- **Fanless**
  - 60W/10Min 100W/10Min
- **Backup**
  - 60W/10Min 100W/10Min
- **Safety Class**
  - CE

**Features**

- 1. mini ITX supports Intel® 22nm Atom™ or Celeron® on-board SoC
- 2. Wide-range 9V~27V DC input design
- 3. Supports dual independent display with dual LVDS and VGA
- 4. Equipped with AUPS sub-system, acts as a simple UPS system
- 5. Supports four USB 2.0, two USB 3.0, two SATA and four COM
- 6. IEI jumper-less function

**Ordering Information**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BATKIT-2S2P3800-R10</td>
<td>Mini-ITX SBC supports AUPS Sub-System, Intel® Atom™ E3835 on-board Soc, Wide-range 9V~27V DC input, VGA/LVDS, SATA, Dual GbE, USB 3.0, Audio, CFast and RoHS</td>
</tr>
<tr>
<td>BATKIT-4S2P3800-R10</td>
<td>Mini-ITX SBC supports AUPS Sub-System, Intel® Atom™ E3835 on-board Soc, Wide-range 9V~27V DC input, VGA/LVDS, SATA, Dual GbE, USB 3.0, Audio, CFast and RoHS</td>
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</table>

**Battery Specifications**

<table>
<thead>
<tr>
<th>Battery Model</th>
<th>BAT-LI-2S2P3800</th>
<th>BAT-LI-4S2P3800</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery Type</td>
<td>Li-Ion 252P 3800mAh</td>
<td>Li-Ion 452P 3800mAh</td>
</tr>
<tr>
<td>Battery capacity</td>
<td>7.4V 3800mAh</td>
<td>14.8V 3800mAh</td>
</tr>
<tr>
<td>Maximum charge voltage</td>
<td>8.4V</td>
<td>16.8V</td>
</tr>
<tr>
<td>The end of discharging voltage</td>
<td>5.6V</td>
<td>11.2V</td>
</tr>
<tr>
<td>Battery charge time (Power off)</td>
<td>2.5hrs</td>
<td>5hrs</td>
</tr>
<tr>
<td>Battery charge time (Power on)</td>
<td>6.5hrs</td>
<td>13hrs</td>
</tr>
<tr>
<td>Operating temp.</td>
<td>0°C ~ 40°C</td>
<td>0°C ~ 40°C</td>
</tr>
<tr>
<td>Storage temp.</td>
<td>-20°C ~ 60°C</td>
<td>-20°C ~ 60°C</td>
</tr>
<tr>
<td>Cycle life</td>
<td>300 charge/dischage cycles</td>
<td>300 charge/dischage cycles</td>
</tr>
<tr>
<td>Backup</td>
<td>60W/10Min</td>
<td>100W/10Min</td>
</tr>
<tr>
<td>Safety class</td>
<td>CE</td>
<td>CE</td>
</tr>
</tbody>
</table>