Connect Tech Inc.
Embedded Computing Experts

TrailBlazer/SBC

Connect Tech's TrailBlazer/SBC is a rugged single board computer that has been specifically designed for the Intel® Bay series CPU. TrailBlazer is available with a Quad Core Atom™ E3845, a Dual Core Atom™ E3825, or a Single Core Atom™ E3815.

Excellent for low power application needing a wide power input. With Mini-PCIe/mSATA/External SATA switching, Dual Gigabit Ethernet, and multiple display formats the TrailBlazer/SBC offers a full featured, flexible small form factor solution.

Part Numbers and SKU Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>TrailBlazer/SBC</th>
<th>CPU</th>
<th>Operating Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>QKG201</td>
<td>No CAN Bus (QCG202)</td>
<td>Intel® Atom™ E3845 Quad Core 1.91GHz, 2MB L2 Cache, 2GB 1333MT/s DDR3L Memory, 4GB eMMC Flash</td>
<td>-40°C to +85°C</td>
</tr>
<tr>
<td>QKG202</td>
<td>No CAN Bus (QCG202)</td>
<td>Intel® Atom™ E3825 Dual Core 1.33GHz, 1MB L2 Cache, 2GB 1066MT/s DDR3L Memory, 4GB eMMC Flash</td>
<td>-40°C to +85°C</td>
</tr>
<tr>
<td>QKG203</td>
<td>No CAN Bus (QCG202)</td>
<td>Intel® Atom™ E3815 Single Core 1.46GHz, 512KB L2 Cache, 2GB 1066MT/s DDR3L Memory, 4GB eMMC Flash</td>
<td>-40°C to +85°C</td>
</tr>
<tr>
<td>QKG204</td>
<td>CAN Bus (QCG203)</td>
<td>Intel® Atom™ E3845 Quad Core 1.91GHz, 2MB L2 Cache, 2GB 1333MT/s DDR3L Memory, 4GB eMMC Flash</td>
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<tr>
<td>QKG205</td>
<td>CAN Bus (QCG203)</td>
<td>Intel® Atom™ E3825 Dual Core 1.33GHz, 1MB L2 Cache, 2GB 1066MT/s DDR3L Memory, 4GB eMMC Flash</td>
<td>-40°C to +85°C</td>
</tr>
<tr>
<td>QKG206</td>
<td>CAN Bus (QCG203)</td>
<td>Intel® Atom™ E3815 Single Core 1.46GHz, 512KB L2 Cache, 2GB 1066MT/s DDR3L Memory, 4GB eMMC Flash</td>
<td>-40°C to +85°C</td>
</tr>
</tbody>
</table>

Specifications

- Dimensions: 146.05 x 131.76 mm
  5.75” x 5.1875”
- Mini-PCIe/mSATA: 2x Mini-PCIe/mSATA (Use of mSATA removes External SATA)
- GPIO: 16 bit
- SATA: 2x SATA Links (mSATA or External SATA Capable)
- Display: 1x DisplayPort/HDMI/DVI, 1x LVDS
- Serial: 4x RS-232/RS-485 (Half/Full Duplex) – PCIe UART, 1x RS-232/RS-485 (Half/Full Duplex) – Qseven Module
- CAN Bus: 2x CAN (FPGA Soft Core - QCG203 Only)
- USB: 1x USB 3.0, 4x USB 2.0 (2x Integrated into USB 3.0)
- Ethernet: 2x Gigabit Ethernet (10/100/1000)
- SD Card: 1x microSD Card
- Audio: HD Audio: 1x Input, 1x Output
- Power Requirements: +12V to +36V DC Input
- Operating Temperature: -40°C to +85°C
- Accessories: Cable Kit
- Warranty and Support: 2 Year Warranty and Free Support

FEATURES

- Choose from Intel® Atom™ E38xx series, Quad, Dual or Single core options
- Quad Serial, Dual CAN Bus (Optional)
- External SATA/mSATA Switching Circuitry
- Single Wide Range Input Voltage +12V to +36V DC Input
- Extended Temperature Range -40°C to +85°C

Connect Tech Inc.
42 Arrow Road, Guelph ON Canada
Tel: 519.836.1291 Fax: 519.836.4878
Toll: 800.426.8979 (North America)
Email: sales@connecttech.com
www.connecttech.com

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