Features

- AMD Ryzen™ Embedded V1000 processors
- 2 DDR-2400/3200 SO-DIMM for up to 32GB of memory
- Max. up to 7 lanes of PCI Express
- 2 SATA-600
- 3 USB 3.0 and 8 USB 2.0
- TPM 2.0 supported
- Wide voltage input from +8V to +20V

Core System

CPU: AMD Ryzen™ Embedded V1000 series
  - V1202B / 2.3 GHz (12-25W)
  - V1605B / 2.0 GHz (12-25W)
  - V1756B / 3.25 GHz (35-54W)
  - V1807B / 3.35 GHz (35-54W)

System Memory: 2 x DDR4-2400/3200 SO-DIMM, up to 32GB (dual channel) *, non-ECC/ECC memory
*Memory speed was depend on memory rank.

Chipset: SoC integrated

BIOS: AMI uEFI (Legacy free)

Storage: N/A

Watchdog Timer: 65536 levels, 0 to 65535 sec.

Expansion Interface: 7 x PCIe x1 via PCIe bridge

Battery Lithium: N/A

Power Input: ATX: +12V, +5VSB
  - AT: +12V
  - Wide range input: +8V to +20V

Dimensions: 95 x 95 mm

Board Thickness: 2.0 mm

Operating Temperature: -20°C to +60°C (-4°F to +140°F)

Humidity: 10% - 95% relative humidity, non-condensing
*Memory speed was depend on memory rank.

I/O

SATA: 2 x SATA-600

Ethernet: 1 x 10/100/1000 Mbps Ethernet with Intel® i210; supports Wake-on-LAN, PXE Boot ROM

Audio: HD link interface to baseboard for Codec

USB: 3 x USB 3.0
  - 8 x USB 2.0

Serial: 1 x LPC
  - 1 x SPI
  - 2 x TX/RX

TPM: TPM 2.0

SMBus: Yes

Others: 1 x I²C

GPIO: 4-CH in & 4-CH out

Smart Battery: Yes

Display

Graphic: Radeon™ RX Vega Graphics with up to 11 compute units
  - H.265 (10-bit) decode & (8-bit) encode, VP9 decode

Display Interface: 1 x VGA, 1 x LVDS dual-channel 18/24-bit or eDP 1.3 (optional)
  - 2 x DDI (HDMI 1.4, DVI, DisplayPort 1.2)*
  - *HDMI 2.0 needs redriver chip on carrier board/DisplayPort 1.4 needs redriver chip on carrier board

Packing List

Quick installation guide

Ordering Information

Standard

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEM130-V1202B</td>
<td>COM Express Type 6 Compact module with AMD Ryzen™ Embedded V1202B, DDI, LVDS, GbE LAN, USB 3.0 and TPM</td>
</tr>
<tr>
<td>CEM130-V1605B</td>
<td>COM Express Type 6 Compact module with AMD Ryzen™ Embedded V1605B, DDI, LVDS, GbE LAN, USB 3.0 and TPM</td>
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<tr>
<td>CEM130-V1756B</td>
<td>COM Express Type 6 Compact module with AMD Ryzen™ Embedded V1756B, DDI, LVDS, GbE LAN, USB 3.0 and TPM</td>
</tr>
<tr>
<td>CEM130-V1807B</td>
<td>COM Express Type 6 Compact module with AMD Ryzen™ Embedded V1807B, DDI, LVDS, GbE LAN, USB 3.0 and TPM</td>
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</tbody>
</table>

Optional

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEB94011</td>
<td>COM Express Type 6 application board</td>
</tr>
<tr>
<td>CEM130 heat sink with fan</td>
<td></td>
</tr>
<tr>
<td>CEM130 heat spreader</td>
<td></td>
</tr>
</tbody>
</table>

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