iSBC 604/614 or (pSBC 604/614*)
MODULAR CARDCAGE/BACKPLANE

- Interconnection on MULTIBUS system bus and housing for up to four Intel iSBC boards
- Strong cardcage structure helps protect installed iSBC single board computers and expansion boards against warping and physical damage
- Connectors allow interconnection of two or more cardcage/backplane assemblies
- Cardcage mounting holes facilitate interconnection of units
- Compatible with 3.5-inch RETMA rack mount increments
- Dual backplane power supply connectors and signal line termination circuits on iSBC 604 Cardcage/Backplane

The iSBC 604 and iSBC 614 Modular Cardcage/Backplane units provide low-cost, off-the-shelf housing for OEM products using two or more Intel single board computers. Each unit interconnects and houses up to four boards. The base unit, the iSBC 604 Cardcage/Backplane, contains a male backplane PC edge connector and bus signal termination circuits, plus power supply connectors. It is suitable for applications requiring a single unit, or may be interconnected with the iSBC 614 Cardcage/Backplane when more than one cardcage/backplane unit is needed. The iSBC 614 Cardcage/Backplane contains both male and female backplane connectors, and may be interconnected with iSBC 604/614 Cardcage/Backplane units. Both units are identical, with the exception of the power connectors and bus signal terminator features. A single unit may be packaged in a 3.5-inch RETMA rack enclosure, and two interconnected units may be packaged in a 7-inch enclosure. The units are mountable in any of three planes.
**SPECIFICATIONS**

**Backplane Characteristics**

**Bus Lines** — All MULTIBUS system bus address, data, and command bus lines are bussed to all four connectors on the printed circuit backplane.

**Power Connectors** — for ground, +5V, -5V, +12V, -12V, -10V power supply lines

**ISBC 604** — Bus signal terminators, backplane male PC edge connector only, and power supply headers

**ISBC 614** — Backplane male and female connectors

**Mating Power Connectors**

<table>
<thead>
<tr>
<th>AMP</th>
<th>Connector</th>
<th>87159-7</th>
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<tbody>
<tr>
<td>Pin</td>
<td>87023-1</td>
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<tr>
<td>Polarizing key</td>
<td>87116-2</td>
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<tr>
<th>Molex</th>
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<tr>
<td>Pin</td>
<td>08-50-0106</td>
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<tr>
<td>Polarizing key</td>
<td>15-04-0219</td>
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</tbody>
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**Physical Dimensions**

- **Height** — 8.5 in. (21.59 cm)
- **Width** — 14.2 in. (36.07 cm)
- **Depth** — 3.34 in. (8.48 cm)
- **Weight** — 35 oz (992.23 gm)

**Environmental Characteristics**

- **Operating Temperature** — 0°C to 55°C

**Reference Manual**

9800708 — ISBC 604/614 Cardcage Hardware Reference Manual (NOT SUPPLIED)

**ORDERING INFORMATION**

<table>
<thead>
<tr>
<th>Part number</th>
<th>Description</th>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SBC 604</td>
<td>Modular Cardcage/Backplane (Base Unit)</td>
<td>SBC 614</td>
<td>Modular Cardcage/Backplane (Expansion Unit)</td>
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