Scope
For E2 versions 4.0 and above, control installations that require a modem connection for remote dial-out of alarms and dial-in via UltraSite, a 33.6Kbaud modem expansion card that mounts on the PIB inside the E2 enclosure box is available.

<table>
<thead>
<tr>
<th>Size</th>
<th>1.0in x 1.0in (25.4mm x 25.4mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temp Specifications</td>
<td>-40°F to +149°F (-40°C to +65°C)</td>
</tr>
<tr>
<td>Storage Temp Specifications</td>
<td>-40°F to +185°F (-40°C to +85°C)</td>
</tr>
<tr>
<td>Operating and Storage Humidity</td>
<td>10-95% RH, noncondensing</td>
</tr>
</tbody>
</table>

Table 1 - Expansion Card Specifications

Introduction
Unlike previous generation modem cards that plugged into the PC-104 slot (or mount above the E2 PIB) in the main processor board of the E2 controller, the E2 modem expansion card mounts inside the E2 enclosure on the PIB.

CAUTION! Observe Precautions for handling electrostatic sensitive devices.

Installation

WARNING! Important safety information: Users of this product and service personnel must read carefully the safety information before use.

CAUTION: These boards must be installed and serviced by suitably qualified personnel.

Use a maximum 26 AWG telephone line cord to connect this product to the telephone network for protection against potential power line cross with outside plant telephone lines.

Refer also to any region-specific regulatory requirements of network connection in the Regional Regulatory Notices, Safety, or Telecommunications sections.
**Step 1: Power Down and Jumper Setup**

To power down the E2, flip the POWER switch on the PIB to the OFF position.

**Step 2: Mounting**

After powering down the E2 unit, mount the modem card onto the two connectors J24+J25 located on the E2 PIB. The card plugs in one-way only on the board.

![CAUTION! Power down the E2 before mounting or removing any device. Failure to do so will damage the board.]

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![Figure 2 - Modem Installation](image)

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![Figure 3 - E2 PIB Modem Card Mounting](image)
**Step 3: Phone Line Connection**
Plug a standard phone cable into the J23 phone jack on the E2 PIB. The E2 unit should detect the modem as present and ready for use.

**Step 4: Software Setup**
Log on to the E2 and go to the Serial Configuration Setup screen by pressing Alt + M. Adjust the modem settings and baud rate from this screen (COM 3). COM3 Modem Port should be set to *Internal Modem*, COM3 Modem Type to *CPC 33.6K Internal*, and enter your initialization strings.

![Figure 4 - E2 Serial Configuration Setup Screen](image)

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**FCC Part 68 Labeling and User Information: Part 68 Labeling Requirements:**

Part 68 Labeling Requirements:
- Complies with FCC Part 68 Rules
- Registration Number: 3A4M500BHM-T-W
- Ringer Equivalence: 0.0B

Repair Information - According to the FCC, only Radicom Research (or an authorized repair facility) is allowed to service the modem. Repairs require the modem be removed from the finished product and returned to Radicom Research. (Contact Radicom for an RMA number. DO NOT RETURN MATERIAL WITHOUT AN AUTHORIZED RMA NUMBER.)

The Federal Communication Commission (FCC) has established rules, which permits this device to be directly connected to the telephone network. If this device is malfunctioning, it may also be causing harm to the telephone network; this device should be disconnected until the source of the problem can be determined and until repair has been made. If this is not done, the telephone company may temporarily disconnect service. The telephone company may make changes in its technical operations and procedures; if such changes affect the compatibility or use of this device, the telephone company is required to give adequate notice of the changes. If the telephone company requests information on what equipment is connected to their lines, inform them of the following:
- The telephone number of the device it connected to
- The ringer equivalence number (REN)
- The device uses an RJ11 type jack
- The FCC Registration Number

The REN (Ringer Equivalence Number) is used to determine the number of devices that may be connected to the telephone line. Excessive RENs on a telephone line may result in devices not ringing in response to an incoming call. In most, but not all areas, the sum of the REN should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company. The Telephone Consumer Protection Act of 1991 makes it unlawful for any person to use a computer or any other electronic device, including fax machines, to send any message unless such message clearly contains in a margin at the top or bottom of each transmitted page or on the first page of the transmission, the date and time, it is sent and an identification of the business or other entity, or other individual sending the message and the telephone number of the sending machine or such business, other entity, or individual. (The telephone number provided may not be a 900 number or any number for which charges exceed local or long distance transmission charges.) This equipment must not be used on party lines. Connection to party line service is subject to state tariffs. Contact state public utility commission for information.