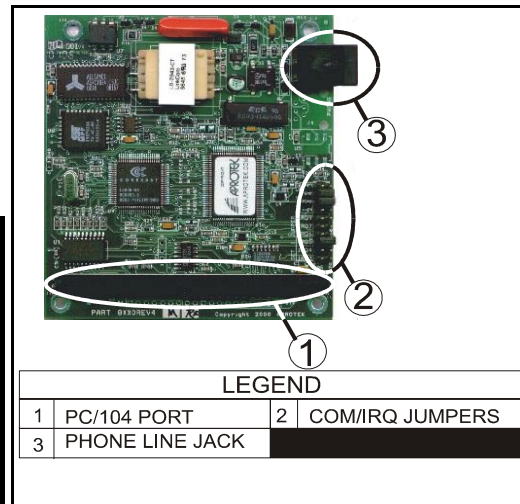# TECHNICAL BULLETIN

CPC ®
COMPUTER PROCESS CONTROLS

Installation Instructions:
Einstein PC/104 33.6K Modem Card (P/N 370-3360)

Scope

For Einstein control installations that require a modem connection for remote dial-out of alarms and dial-in via UltraSite, CPC supplies a 33.6Kbaud modem expansion card that plugs into the PC/104 slot of the Einstein processor board.

Baud Rate	Modem/FAX: up to 33.6Kbaud	
Size	3.55 x 3.775 x 0.55 in (90 x 96 x 14mm)	
Operating Temp Specifications	-40° to +85°C	
Storage Temp Specifications	-55°C to +125°C (-67°F to +257°F)	
Operating and Storage Humidity	0-90% RH, noncondensing, or wet bulb temperature up to 35°C	

LEGEND		
1	PC/104 PORT	2 COM/IRQ JUMPERS
3	PHONE LINE JACK	

Table 1 - Modem Specifications

Installation

Step 1: Jumper Setup

Before installing the modem, make sure the COM and IRQ jumpers are set to the correct setting (COM 3, IRQ 5). Place jumpers across the pins labeled IRQ5, 1-3, and 3-4, as shown in Figure 1.
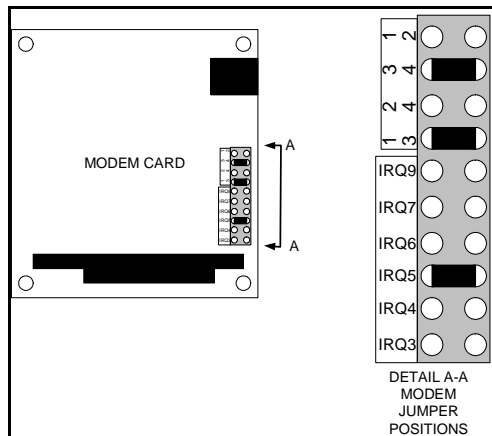

Figure 1 - Modem Card Jumper Settings

Step 2: Mounting

> ⚠️ **WARNING! Power down the Einstein before mounting or removing any device from the PC/104 slot. Failure to do so will damage the board.**

The Einstein's internal modem mounts in the PC-104 slot located at the bottom center of the Einstein processor board (*Figure 2*). Remove power to the Einstein board. Carefully plug the male pins on the back of the modem card into the **top row** of the Einstein's PC-104 slot. Use the stand-offs and screws supplied with the modem card to secure the card to the processor board, as shown in *Figure 2*. When mounted, restore power to the Einstein and allow the Einstein to reboot.

> **NOTE: The back of the modem card has only two rows of 32 pins, whereas the PC/104 socket has four rows (two 32-pin, two 19-pin). This is as designed. Plug the modem pins into the two 32-pin rows on the PC/104 socket.**

If the Einstein also must have a NetCom Ethernet card or an internal repeater card, **do not plug the modem directly into the Einstein.** Plug the modem in the back of the top card on the stack as shown in *Figure 2*, so that the modem will be the device at the top of the PC/104 stack.
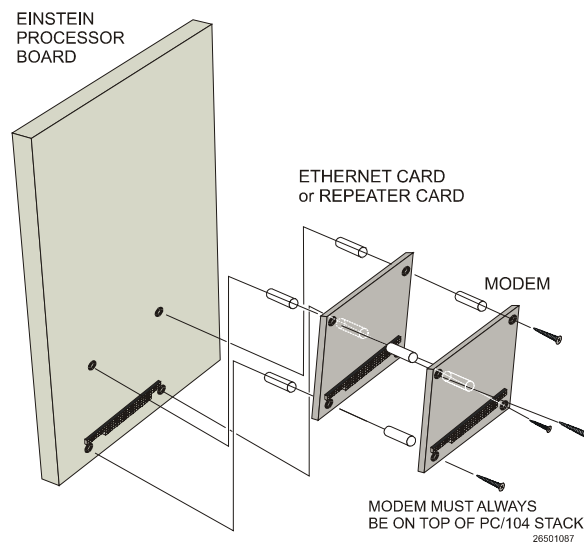

EINSTEIN PROCESSOR BOARD

ETHERNET CARD or REPEATER CARD

MODEM

MODEM MUST ALWAYS BE ON TOP OF PC/104 STACK
26501087

Figure 2 - Einstein Modem Card Mounting

Step 3: Phone Line Connection

Plug a standard phone cable into the RJ11 phone jack on the modem card. The modem is now ready for use.