

## K71r Ruggedised EFTPOS Terminal Interfacing

### Introduction

This *Application Note* details how to interface the Keycorp K71r Ruggedised EFTPOS terminal in a typical Kiosk or Vending machine application.

### Components

#### Main Components

There are three BASIC components in a K71r EFTPOS system:

- 1) K71r Pin Pad Terminal
- 2) PCA (PCB Adaptor) - The PCA is a small Printed Circuit Board (PCB) which provides the connectivity between the K71r (via J1 and J2) and external peripherals.
- 3) K74 Modem

#### Peripherals

In order to complete a system, additional peripherals need to be supplied:

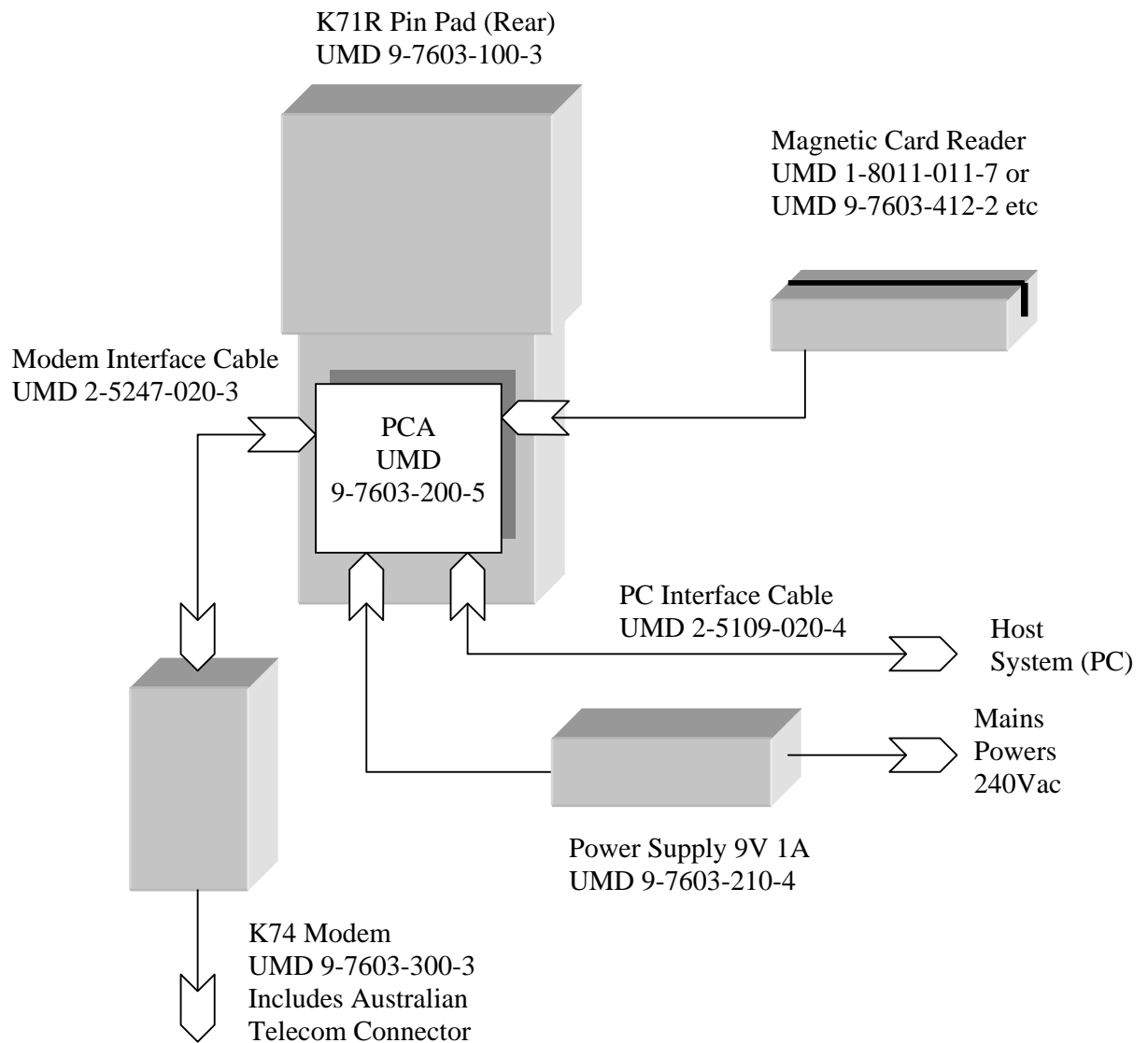
- 4) Magnetic Card Reader – any ISO Track 2 card reader can be used with the K71r. This attaches to the J7 of the PCA.
- 5) Power Supply – depending on the configuration, up to two power sources are required.

Configuration 1 – A single Modem is attached to one K71r Pin Pad. In this mode, only one power source is required (9Vdc 1A) to be supplied to the PCA (via J9). This power supply also provides power to the Modem. (UMD P/N 9-7603-210-4)

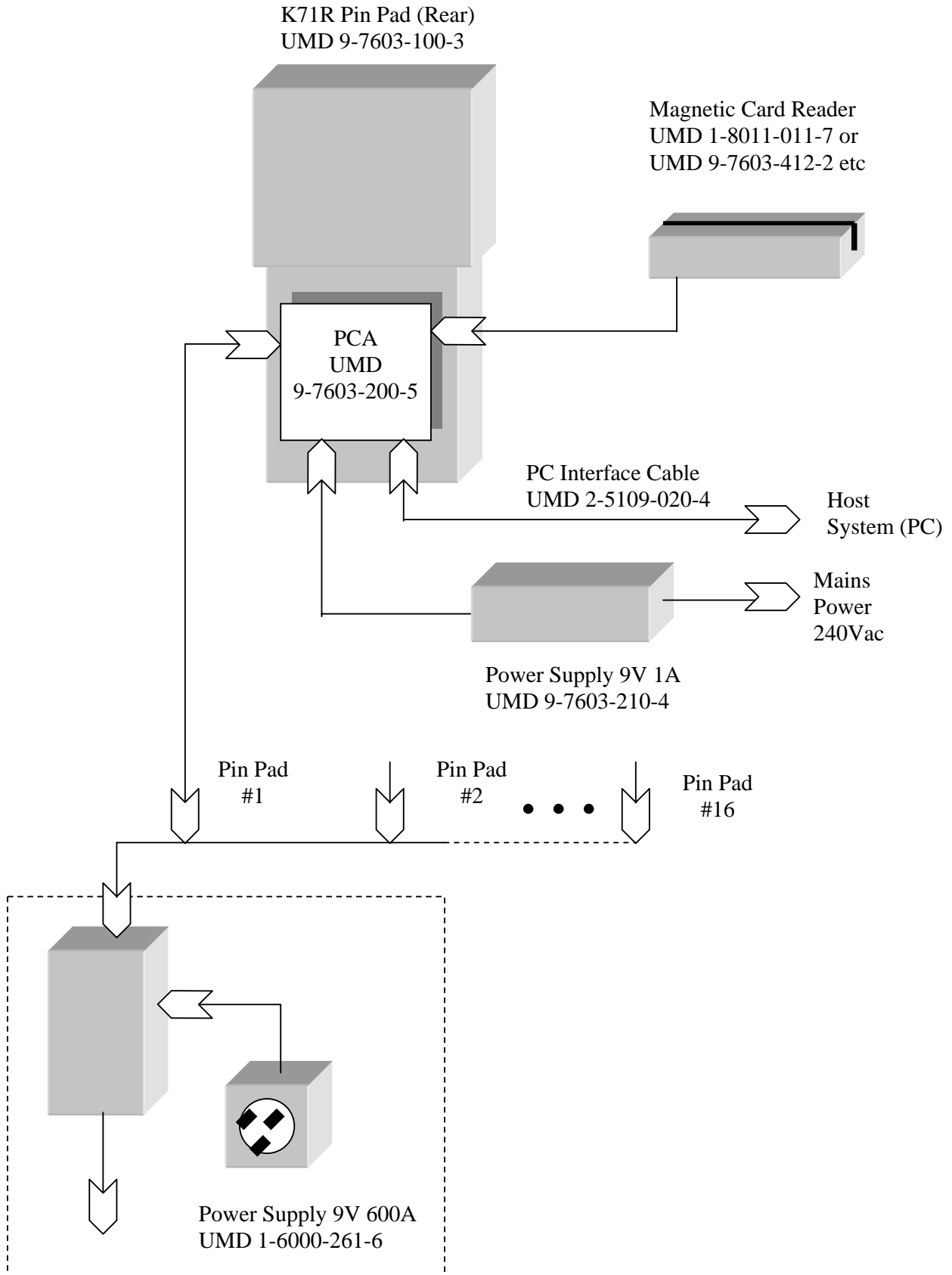
Configuration 2 – LAN Configuration mode; here upto 16 K71r Pin Pads can be shared with the one Modem (via RS485 Multidrop connection). A separate 9Vdc 600 mA power supply is required (UMD P/N 1-6000-261-6). Each K71r requires a separate power supply (as detailed above).

- 6) Printer – Some form of receipt printer (typically a Kiosk printer) is required to print the EFTPOS confirmation receipt. This printer can be shared between the K71r and Kiosk/Vending machine application.

## Configuration 1 – Single Mode



## Configuration 2 – LAN Mode

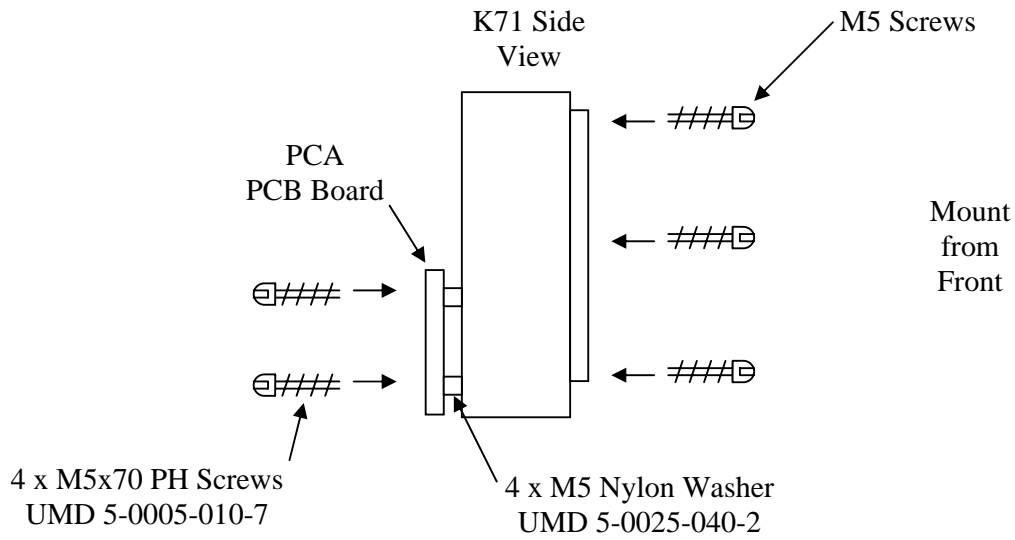


## Mounting

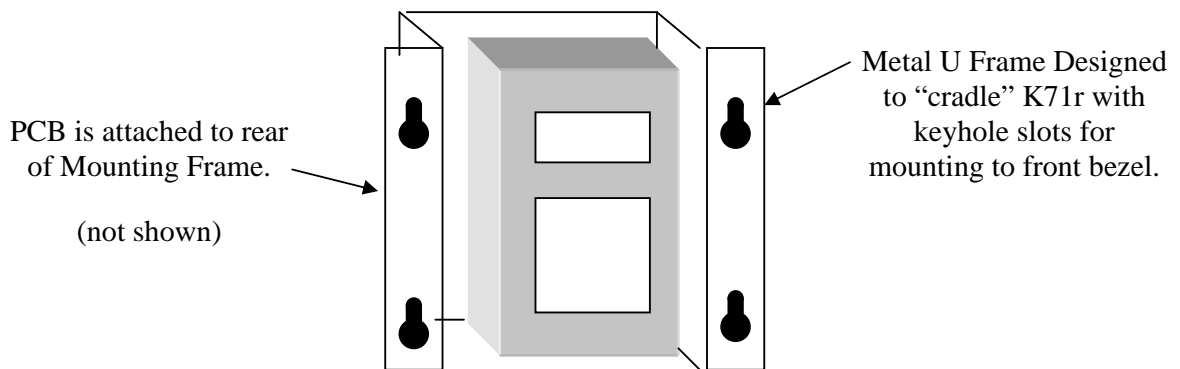
The K74 Pin Pad is made of solid metal construction and weighs just under 2Kg. Thus care must be taken in mounting the Pin Pad.

There are two common methods that customer use.

### Mounting from Front



### Mounting via Frame



## Notes

- (1) The K74 is analog modem designed to connect to the Australian Public Standard Telephone Network (PSTN) and is supplied with a telephone line cord.
- (2) There are no user serviceable parts in the K71r Pin Pad. All repairs must be returned to UMD. (returns can be organised via our On-Line Service System: <http://www.umd.com.au/smd/olss>)
- (3) In LAN mode, only D9 pins 3 and 4 are used to connect between K71r and K74 Modem. (wired in parallel). Also you may need to terminate RS485 line with 75-Ohm resistor.
- (4) If providing own power source (9V 1A) special 4 way power connector (J9 on PCB Adaptor) is available from UMD (P/N 1-0210-003-5)