

General Notes on Interfacing to UMD Products

Introduction

This application note outlines cabling issues for interfacing Unique Micro Design's (UMD) products.

Ordering Cables

Due to the flexibility of UMD solutions and configuration options, cables are listed and priced separately. All cable assemblies must be ordered separately (unless otherwise stated) including keyboard wedge cables.

Keyboard Wedge Interfaces

Keyboard wedge products such as the M262 Custom Keyboard, M360 Keyboard Wedge, M380 Magnetic Card Reader, M381 Bar Code/Magnetic Card Reader and M382 Bar Code Reader require cables to connect to the PC system unit.

There are two styles of PC in relation to keyboard connector styles - the original standard PC and PC/AT styles which use a 5 pin DIN connector for the keyboard and the newer PS/2 style which uses a smaller 6 pin mini-DIN keyboard connector. For the 5-pin DIN style, a CA202 cable is required for connection between the keyboard wedge and the system unit. With the PS/2 style, both a CA226 cable for connection between the keyboard wedge and system unit and a CA227 for connection of the keyboard to the wedge is required.

Serial Interfaces

The M125-ID, M262, M280, M360, M380, M381 and M382 all have D9 plug serial ports that use the same pin consignments. The configuration is a subset of a standard PC's D9 serial interface. This means that only a few types of serial cable are required to interface to external peripherals.

All keyboard wedge products (M262, M360, M380, M381 and M382) can interface via their D9 serial connectors to products that output ASCII data in serial format. Typical devices are the BHS2060, BHS6000 & BCS5040 CCD Bar Code Scanners as

well as Spectra-Physics Laser Scanners. Note that the CCD Bar Code Scanners also derive their power from the D9 connector that outputs 5 volts on pin 7.

The M231-S and M232-S Customer Displays with serial interfaces have D25 sockets configured as serial printers and therefore use serial printer cables.

Parallel Interfaces

The M231-P and M232-P Customer Displays with parallel interface have D25 sockets and require a CA139 cable to connect to PC printer ports.

Further information

Application Note 107 provides a more comprehensive selection guide to cable assemblies used in interfacing UMD products.

