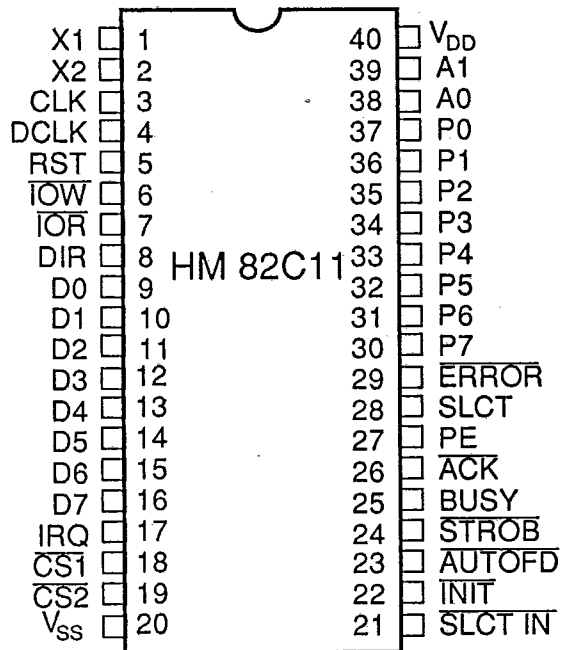# HMC

HM82C11 PRINTER
ADAPTER INTERFACE

HM8348
MOUSE CONTROLLER

Features

* High driving capabilities.
* Internal diagnostic capabilities.
* Easily interfaces with most popular microprocessor.
* Communications with other parallel device.
* User-controlled interrupt request.
* Single 5V power supply.
* Completely TTL-interface.

Pin Assignment

```
          ┌──────┐
  X1  □ 1       40 □ V_DD
  X2  □ 2       39 □ A1
 CLK  □ 3       38 □ A0
DCLK  □ 4       37 □ P0
 RST  □ 5       36 □ P1
 IOW  □ 6       35 □ P2
 IOR  □ 7       34 □ P3
 DIR  □ 8  HM82C11 33 □ P4
  D0  □ 9       32 □ P5
  D1  □ 10      31 □ P6
  D2  □ 11      30 □ P7
  D3  □ 12      29 □ ERROR
  D4  □ 13      28 □ SLCT
  D5  □ 14      27 □ PE
  D6  □ 15      26 □ ACK
  D7  □ 16      25 □ BUSY
 IRQ  □ 17      24 □ STROB
 CS1  □ 18      23 □ AUTOFD
 CS2  □ 19      22 □ INIT
 V_SS □ 20      21 □ SLCT IN
          └──────┘
```

Features

* Auto speed with dynamic resolutions.
* Low power dissipation.
* Use 32.768 KHz crystal.
* CMOS DIP 18 pins package.
* Oscillator circuits on-chip.
* Serial output in 1,200 baud rate or 9,600 baud rate available.
* Can be power directly from RS-232C.
* Three key-switches and four photo-couples input.
* Both key-in and key-release debounce interval 52 ms.
* Through three key-switches input, HM 8348 can exert seven different output.
* The motion detector of the HM8348 could sense 4m/sec maximun.
  Photo-couple motion detector with noise immunity.
* The HM8348 exists in two versions 1200/9600 baud rate or tristate mode selector available.

Pin Assignment

HM 8348

```
            ┌──────┐
  RTS   □ 1      18 □ V_DD
    L   □ 2      17 □ Y2
    M   □ 3      16 □ Y1
    R   □ 4      15 □ V_REF
HB/LB   □ 5      14 □ X2
OSC.IN  □ 6      13 □ X1
OSC.OUT □ 7      12 □ AUT
OSC.DR  □ 8      11 □ RXD
  V_SS  □ 9      10 □ RXD
            └──────┘
```