

25 Pin D-Type Parallel Port

BY G8MNY

CENTRONIC		IBM 25W	(Updated May 04)
Pin	Signal	Pin	
1	Data Strobe	1	
2	DATA 1	2	
3	DATA 2	3	13
4	DATA 3	4	\ x x x x x x x x x x x x x x /
5	DATA 4	5	\ x x x x x x x x x x x x x x /
6	DATA 5	6	25
7	DATA 6	7	
8	DATA 7	8	
9	DATA 8	9	
10	ACK	10	36Way Centronic Plug rear
11	BUSY	11	18
12	PAPER END	12	\ x x x x x x x x x x x x x x x x x x /
13	SELECT	13	\ x x x x x x x x x x x x x x x x x x /
14,16	0V (AUTO FEED?)	14	36
17	Ground		19
18	+5v		
19-30	0V Returns	10-23	
31	INPUT PRIME (INIT)	16	
32	FAULT	15	
33	0V	18 & 25	
36	SELECT IN	17	

*****Parallel Port Input & Output*****
 There are 3, 8 bit Ports Connected to the Parallel Printer Port At the Back of your PC. This can be used quite easily for Inputting And Outputting Data to & from the PC. Not all bits are settable so you will have to read the ports and Mask off the Input data using AND & OR Functions.

Port &H378

These Pins are Outputs Only But their current settings may be read back using Most Modern BASICS.

The Basic Command to Output Data onto these Pins is

```
Value%=21 (or whatever you require) OUT &H378,Value
```

The Data Output is Latched, IE once Written it stays there until overwritten by new data.

Pin	Name	Port	Bit	Direction	
2		&H378	0 >	Out	Current status
3		&H378	1 >	Out	of these
4		&H378	2 >	Out	Pins may also
5		&H378	3 >	Out	be read
6		&H378	4 >	Out	Back Using BASIC
7		&H378	5 >	Out	command
8		&H378	6 >	Out	X%=INP(378)
9		&H378	7 >	Out	Print X%

		Port &H37A			*****
1	Strobe	&H37A	0 >	OUT	To Output Data
14	Auto	&H37A	1 >	OUT	onto these Pins
16	Init	&H37A	2 >	OUT	Use the same command
17	Slct In	&H37A	3 >	OUT	But Port is 37A

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4      Int En
***** Port &H379 *****
These Pins may be used for Input, Port Number is &H379
13  Slct   &H379  4  <   IN   These Pins may be
11  Busy   &H379  7  <   IN   Used for I/P to PC
12  PE     &H379  5  <   IN   using X%=INP(&H379)
10  ACK    &H379  6  <   IN   Print X%
15  Error  &H379  3  <   IN
*****

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Pins 18 to 25 are Ground Pins

Sending a 1 to Bit 4 of Port &H37A will enable the Printer card interrupt.
 This interrupt triggers when Pin 10 goes from Hi to lo. Sending a 0 to Bit 4 of
 Port &H37A will disable the Printer card interrupt.

Writing data to these ports causes Printing Problems afterwards. Either switch
 PC Off the On or Use Sleep Command before Printing.

 Michel, F5AAJ @ F6KDS says for the status, you have to read &H378 (I wrote
 X%=INP(378). You can use, too, PRINT (INP(&H378)). Idem, for the output on a
 port, you can write OUT &H378,21 or OUT &H378,&H15, by example...

Why Don't U send an interesting bul?
 /QSL
 73 De John, G8MNY @ GB7CIP